



# PRODUCT CATALOGUE

# ENDRESS

Leading in mobile power generators



ENDRESS has specialised in the development, production and distribution of first-class generators since 1914. ENDRESS will continue to safeguard its leading role in the future through technically demanding and trendsetting innovations and new products.

Important principles of the company policy are:

- Performance and reliability through a choice of outstanding components and standardised quality
- Environmental compatibility and futuristic technology through in-house development and production
- ENDRESS know-how at its locations worldwide

Innovation and customised product development as well as application guidance are the action parameters of a service-oriented company philosophy. This will allow ENDRESS to meet the growing demands and internationalisation of commercial companies in the future as well.



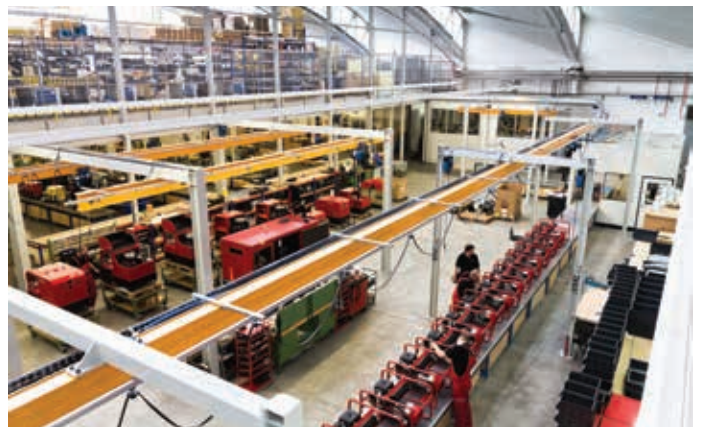
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information:

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our homepage](#)

Futuristic technology through in-house development and production

ENDRESS is one of Europe's market leaders in the generator sector. Decades of experience in generator development and production guarantee the highest quality and absolute reliability.

With an power range of up to 2000 kVA, ENDRESS meets all requirements. Innovative special equipment for fire brigades, disaster relief and emergency services and the fulfilling of special requirements in the construction, municipal and project businesses are also part of our range of equipment, as are our floodlighting systems and emergency power supply generators.



Excellent engineering by ENDRESS

# DUPLEX

## DUPLEX<sup>plus</sup>

## ECO<sup>tronic</sup>

## maxdrive

## E-RMA System

connected power





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# DUPLEX

### DUPLEX in a nutshell

#### Yesterday:

As no electronics were used with the units, asynchronous generators were needed to produce so-called “clean” current, and synchronous generators are needed to handle the “hard starts”.

#### Today:

With Duplex technology, the electronic controller unit regulates itself individually to each drive engine and reacts appropriately before the engine is overstrained. In this way, reserve output can be mobilised and the Duplex generator powers even the heaviest inductive appliances and protects sensitive appliances from damage. Therefore all of the advantages of asynchronous and synchronous generators are combined in the DUPLEX system and this ends the discussion about which technology is the better, synchronous or asynchronous.

#### Advantages at a glance:

- Combines and strengthens the advantages of asynchronous and synchronous generators
- WCT technology:  
W = wear-free C = contact-free T = trouble-free
- Simultaneous use by electronic and inductive appliances
- Brushless, electronically regulated synchronous generator
- Brushless technology - therefore 20,000 operating hours
- Protection Class IP 54 – protected from dust and spray
- 200% unbalanced load in actual operation
- Voltage stability  $\pm 1\%$  with 3~ generators
- Up to 4 times the starting current
- 100% short-circuit-proof
- Distortion factor  $\leq 5\%$

### A power generator for every use!



#### The fine distinction:

The ENDRESS DUPLEX system is an intelligent excitation machine that works where carbon brushes that are traditionally wear-prone are used.

In connection with the power electronics, it represents the pinnacle of modern power generation technology.



Rotor head with wear-prone carbon brush operation

DUPLEX rotor head fitted with an intelligent excitation machine



All DUPLEX generators are built to IP 54 — for your safety

**Greater safety with IP 54.**  
Why is IP 54 so important?

Generators of protection class IP 54 are protected from the smallest dust particles and spray water. This not only lengthens your generator's life, but most of all protects the people who work with it.



Large and heavy was yesterday - small and light is today!

**Dimensions: small!**  
**Power: huge!**  
The same pure power as a large unit!

Where heavy stationary plants of up to 15 kVA had to be used in the past, a 13 kVA DUPLEX power generator is sufficient today. A brushless DUPLEX generator can bypass the starting currents with up to 4 times the rated current.

First in its class — for better mobility.



Only DUPLEX generators give you the guarantee that no asymmetric load can occur

**Clean power for sensitive consumers.**  
What is "clean power"?

Electronic appliances, such as welding equipment, computers, TVs, stereos, heating systems or various electronic controls require constant power and a stable frequency.

Our DUPLEX technology protects your appliance by producing a voltage constant of up to  $\pm 1\%$  of nominal voltage (230V).



# Technology and innovation



## ECOtronic

### What is ECOtronic?

The generation of current with a conventional petrol generator takes place at a high speed range of 3000 rpm. However, according to experience a generator often runs without a load during use. From today's point of view this leads to wasteful use, such as during work with electric tools on construction sites or in repair or emergency use. In order to meet these requirements, the ECOtronic system was developed by ENDRESS and is already used today as standard in the DUPLEXplus line.

### Here's how it works:

ECOtronic is an environmentally-friendly alternative to conventional electricity generation. During use, the ECOtronic system recognises whether an output is being used or not. The speed is significantly reduced if no power is being drawn. This happens automatically and the generator keeps running quietly and economically, however it always remains in stand-by. The ECOtronic system immediately provides full power again without delay only when power output becomes necessary, e.g. when using an electric power tool.

### Advantages at a glance:

- Up to 30% less fuel consumption
- A longer engine service life
- Operating costs are lowered
- Reduction of the pollutant emissions
- Significantly reduced noise emissions

## maxdrive

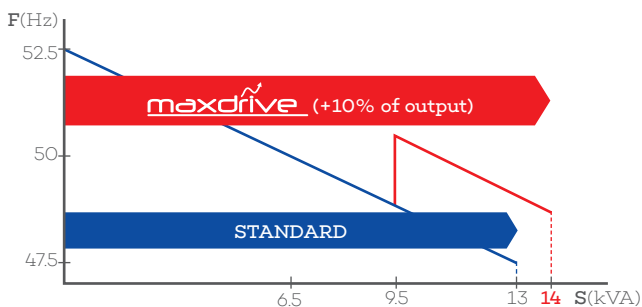
ENDRESS's new maxdrive power management module allows engines to be used without performance loss.

### Here's how it works:

During heavy loads, such as starting current or impact loads, the drive engine's centrifugal governor quickly reaches its limit. Before the power drops, the maxdrive power management module supports the engine regulator. The throttle opens all the way and this ensures that the engine's full power is available.

### Advantages at a glance:

- An increase in the power output by 10%
- Rpm remains stable under heavy load
- A constant frequency, also in the upper rpm range



## Connected power with E-RMA

### ENDRESS Remote Monitoring Application

The E-RMA system was developed in order to also secure its emergency power supply over long distances. It does not matter where you are in the world, with the E-RMA system from ENDRESS, you always have an overview of the most important data.



#### E-RMA LAN

Using the E-RMA LAN system from ENDRESS will enable your stationary emergency power supply plant to be integrated into the building's computer network. After a few installation steps you can access your device anywhere, naturally even from your smartphone.

#### E-RMA SIM

Even when you might not have access to a network connection due to regional circumstances, you do not have to dispense with remote monitoring and control of your device.

ENDRESS offers a solution for this over the mobile telephone network with the E-RMA SIM. All you need for this is a GSM card with a data tariff (not included in the package).

After just a short set-up time you can control and regulate your emergency power generator from any location.

#### E-RMA Web application

Using the E-RMA system's web interface will enable you to view live data from your device and take over control at any time. It does not matter whether this is from a PC or from your smartphone. The most important components of the web application are:

- The control unit with the remote start option
- Alarm list
- Detailed generator information
- Localisation



For further  
information:

E-RMA flyer can be  
downloaded as a pdf

# Interesting and worth knowing

## The drive motor

### Types of drive



- **Petrol engines** should be considered when the power generator should be compact for mobile use and when only running for average periods for variable operation is expected.
- **Diesel engines** are heavier and more sturdy and therefore better suited for longer running times. The specific fuel consumption of diesel engines is lower.

### Starting system

There are two basic types of starting systems:



- **Recoil starter** to crank the engine manually as opposed to an automatic wind-up rope.
- **Electrical starting** over an ignition switch (a prerequisite being that the battery is present)

### When high speed and when low speed?



#### High speed:

- 3000 rpm petrol or diesel engines
- Engines for daily use: for about 4 - 10 hours
- Life = service time: about 3,000 - 5,000 hours
- Applications: Building sites, skilled trades, road construction.

#### Slow runners:

- 1500 rpm diesel engines
- Engines for constant operation: 24 hours
- Life = service time: 10,000 - 20,000 hours
- Applications: Current and emergency power supply



## Synchronous or asynchronous: a comparison of systems

	Synchronous	Asynchronous
Application	All ohmic and inductive consumers	Only ohmic consumers without any restrictions. Inductive consumer with considerable restrictions.
Starting behaviour	Trouble-free starting, regardless of the consumer. Compound controlled generators with 3-fold start up current. DUPLEX generators with four times the starting current	Problematic starting with the most difficult to start consumers; especially for generators without start amplification. For generators with start amplification, larger generator dimensions are needed.
Load capacity	The generator can handle a 100% load even with inductive consumers and it can therefore have a smaller design.	With inductive consumers, the generator can only be loaded up to 1/3 (without start amplification) and 2/3 (with start amplification).
Regulation	Mechanical regulation IP 23 Electronic regulation IP 54	Usually unregulated, condenser
Protection Class	Design-dependent internal cooling IP 23 Design-dependent external cooling IP 54	Design-dependent IP 54, external cooling.
Protective measures	Safety-separated circuit as personal protection An FI circuit breaker is not necessary	Safety-separated circuit as personal protection - A circuit breaker is not needed





## The proper current quality

Asynchronous generator 230 / 400 V with condenser regulation	for appliances with a low starting current, cannot be overloaded
Synchronous 230V generator with condenser controlling	for consumers with starting current, not suitable for electronic consumers
Synchronous 230V generator with AVR controlling <sup>(1)</sup>	a stable output voltage for simple electronic consumers as well as for appliances with a low starting current, not suitable for electronic consumers with a very high starting current
Synchronous 400V generator with compound controlling <sup>(2)</sup>	consumers with a very high starting current, not suitable for electronic consumers, never suitable for an asymmetric load <sup>(3)</sup>
Synchronous 230V generator with inverter controlling	universally usable, a precise output voltage and frequency for sensitive consumers, as well as consumers with a starting current
DUPLEX 230V / 400V generator with electronic controlling	universally usable / suitable for an asymmetric load <sup>(3)</sup> , a precise output voltage and frequency for sensitive consumers as well as consumers with a high starting current <sup>(4)</sup>

**(1)** AVR - Automatic Voltage Regulation

**(2)** Control of the generators voltage takes place through an additional magnetic field (a compound transformer is installed in the stator)

**(3)** An asymmetric load is understood as being non-uniform loading of a three-phase generator.

**(4)** The smaller the distortion factor the cleaner the supply voltage



## Current types

12 V DC	which can be used for charging batteries.
230 V AC	the most frequently used type of current. Nearly all electric tools, lights and garden and construction machines can be run on it.
400 V three-phase	used at home for appliances like washing machines or cookers, and on construction sites for powerful consumers such as cranes or circular construction / table saws.

### Key to abbreviations

V	volts	Voltage (12 / 230 / 400)
Hz	Hertz	Frequency (50 / 60)
A	Amperes	Current strength
W	Watts (x 1000 = kW)	Active power <sup>(2)</sup>
VA	Volts Amperes (x 1000 = kW)	Apparent power <sup>(1)</sup>
Cos $\varphi$	Nominal established output factor	Power factor (0.8-1)

**(1)** Apparent power <sup>(3)</sup> - data in VA or kVA - is the power the generator can generate

**(2)** Active power <sup>(3)</sup> - data in W or kW - the output that can be drawn from the generator, depending on the generator's power factor.

**(3)** Reactive power - the difference between active and apparent power. This is important for covering the starting current.



For the commissioning of generators fitted with the protective separation measure and without a qualified electrician, additional equipment and measures for personal protection are required when more than one consumer will be connected, depending on the application.

See DIN VDE 0100-551 ( HD 60364-5-551:2010/A11:2016 ), DGV Information 203-032, DVGW GW 661(M).

# Interesting and worth knowing



## Electrical safety

All mobile generators are designed as standard in the protection measure with a circuit breaker with potential equalisation.

They fulfil the requirements according to DIN EN 12601.  
No earthing is necessary for this protection measure.

### The FI protection switch (RCD)

The FI circuit breaker provides further protection against dangerous currents. It shuts off the power supply if there is fault current. This protection measure requires appropriate earthing in which the earthing spike is connected to the generator's earthing screw for potential equalisation by an earthing cable. This is how a potential equalisation is created.

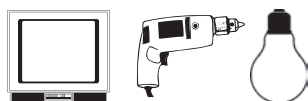
### Safety-separated circuit - insulation monitoring with shut-off.

The appliances turn themselves off automatically if the insulation resistance reaches a critical level. The insulation monitoring function is controlled from a test button. Costly earthing with an earthing spike and earthing cable are no longer necessary. This equipment provides a high level of safety, especially in underground construction such as work on gas and water mains (moist environments). It is even obligatory for pipeline construction according to DVGW GW 308.

### IP = International Protection according to DIN 40050

The IP code consists of two digits that indicate the specific degree of protection. The first digit indicates the protection class for touch and foreign object protection, and the second indicates water and moisture protection.

IP		
-	0	Unprotected
-	1	Dripping water, vertical
-	2	Dripping water, diagonal to 15° from the vertical
-	3	Spray water diagonally up to 60° of the vertical
-	4	Splashed water, from all directions
-	5	Water jet, from all directions
0	-	Unprotected
1	-	Foreign objects > 50 mm
2	-	Foreign objects > 12 mm
3	-	Foreign objects > 2.5 mm
4	-	Foreign objects > 1.0 mm
5	-	Dust protected



Universal engines, which basically act as active load consumers

## Appliances in a nutshell

### Ohmic appliances (active load appliances)

These are consumers that convert their power input completely into heat or light and therefore they do not present problems for any generator. The listed output power (watts) is also the input power that is taken from the generator. Such appliances include heating devices and hot plates.

### Inductive consumers

These are appliances that are driven by an electric motor. With these inductive devices, friction losses and winding losses result in only about 70% of the input power being available as output power.

Additionally, when the motor is turned on, more power is needed. Depending on the type of device and the motor's quality, this can be 3 to 6 times the input power. Such appliances include compressors, table saws and high-pressure cleaners.

### Capacitive appliances

These include critical consumers that, due to their charging function, can be powered safely by specially equipped DUPLEX or synchronous generators. They include flashers or discharge lamps.

### The right generator for your application

To determine the right generator for your use more easily, you will find the applications in each model's table. On **pages 40 - 41**, you will find detailed selection assistance on appliances and the generators that go with them.

The starting power of the Endress generator (3 to 4 times the continuous power value) and the corresponding appliance's starting current are already figured in.

### That can be helpful!

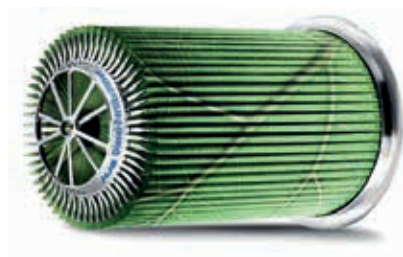
To determine the appliance power - see the model plate or user manual. Consider reserve power in order to be equipped for future applications.

**Recommendation:** it remains 10% under the continuous power output. That preserves the environment and the generator.

## Reduction of diesel pollutants

Diesel engines are powerful, long-lasting and consume little fuel. It is particularly because of this that they are permanently in use for small and large construction sites. However pollutants such as soot particles are created during the fuel combustion process in the engine. The smaller they are, the more easily they find their way through the lungs, into the bloodstream and into other vital human organs. Therefore soot particles from diesel engines are known to represent a significant health hazard. For this reason, numerous measures are coming into force on a step-by-step basis at both European and national levels for reducing pollutant emissions.

These include, for example, the Air Quality Directive (EU Guideline 2008/50/EU) which has been valid throughout the EU since the beginning of 2005. The object of this regulation, its subsidiary directives as well as the respective implementation in the Federal Pollution Control Act, is to considerably improve the air quality, especially in European metropolitan areas. The regulations require that cities and communities take action against increased pollution levels. Previously implemented measures also include the setting up of environmental zones in Germany and further European countries and the so-called filter obligation for construction machines in Switzerland.



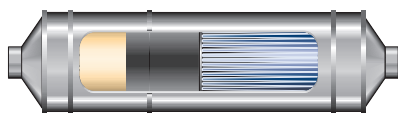
## SMF (Sintered Metal Filter)® - an overview of the benefits

- Reduction of soot and fine particles by more than 99% (based on the number of particles)
- Suitable for OE and retrofitting applications
- A tried and tested system already in use more than 20,000 building machines
- A high ash storage capacity and lower exhaust back pressure
- Low maintenance and economic
- Reliable with high service life
- Easy cleaning

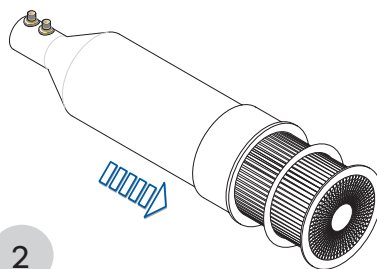
## Advantages of automatic monitoring and a maintenance indicator

- Continuous monitoring of the exhaust back pressure and temperature
- Overloading recognition of the particulate filter
- Automatic display of the cleaning requirement
- Reduction of the maintenance costs

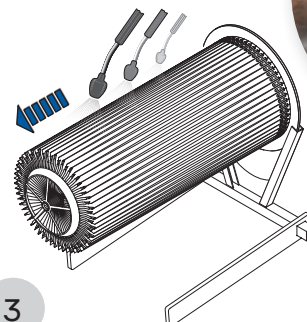
## Easy cleaning using high pressure cleaner:



1



2



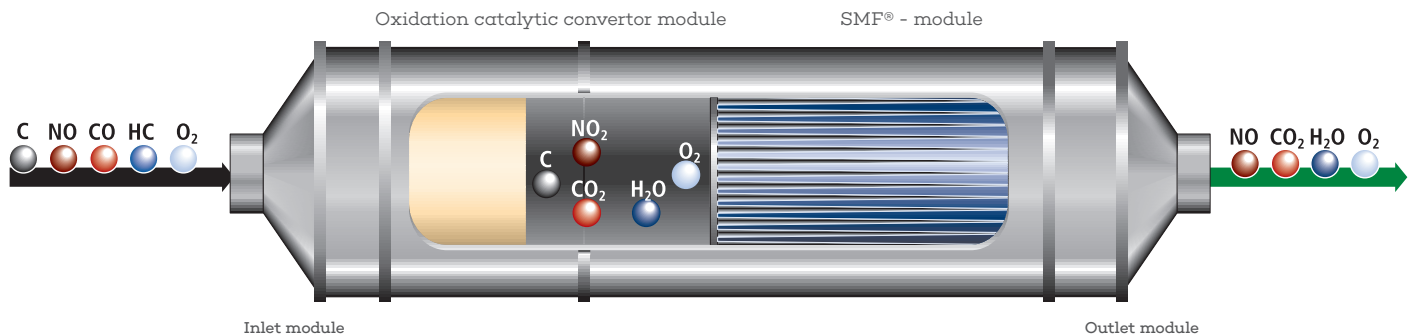
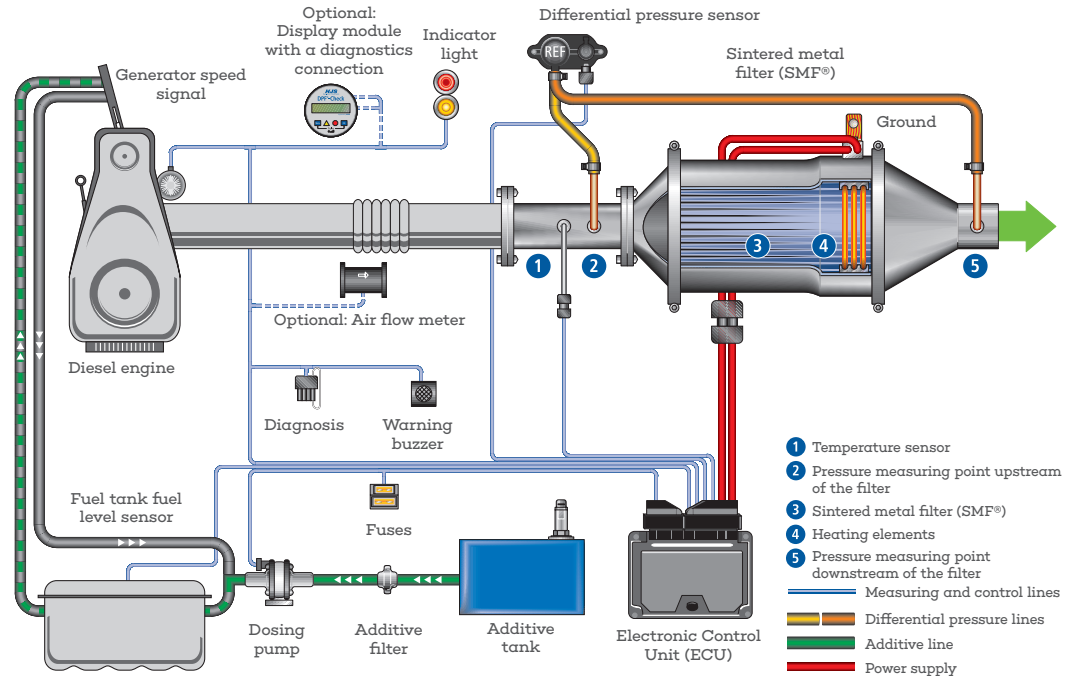
3



# Soot particulate filter

## Function description

In an SMF® AR System the exhaust gas is filtered until the optimum amount of soot has been gathered on the filter for regeneration. The system uses the positive active properties of a fuel additive so that on the one hand, it lowers the soot ignition temperature and, on the other hand, it increases the soot combustion speed. The stored soot can then be burnt off by itself at an exhaust gas temperature of about 400°C during a regeneration. If the required temperature is not reached, which is often the case in the low load range, then active regeneration support will be provided by the system's thermo-electric heating.

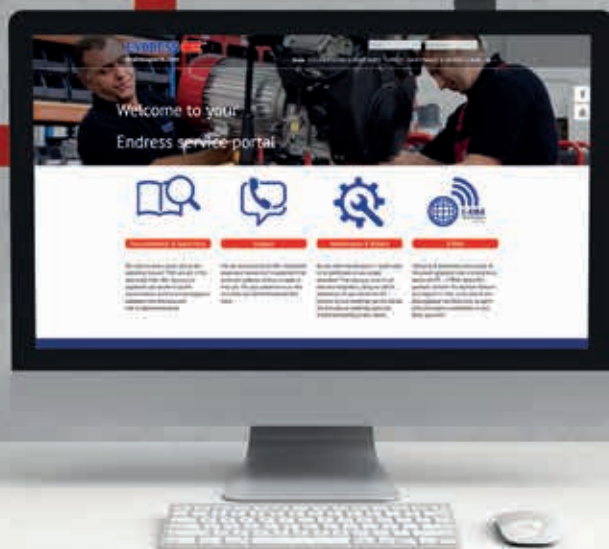


## Active thermo-electric regeneration

The control unit initiates (active) regeneration through the heating elements that are arranged in a circle. The gathered soot is ignited by the radiation energy of the heating elements. The regeneration process proceeds automatically after initial ignition of the soot layer. The soot burning takes place at regular intervals. With the aid of the control unit, not only ignition of the soot is initiated but also the additive is added in an optimal manner, the required filter loading is determined and the most favourable point in time for regeneration is determined. Furthermore, self-learning running cycle recognition ensures that the regeneration is triggered for optimum operating conditions. Due to the high soot storage capacity of the SMF® AR system, the regeneration does not occur just at one "unique", ideal point in time, but rather within a long time window. Therefore a one-time abort of regeneration due to switching off of the engine is not a problem with regard to safe working of the SMF® AR system. Another SMF® plus point is its high ash storage capacity, which allows long maintenance or cleaning intervals.

## SMF® AR – An overview of the advantages

- For OE and retrofitting applications
- Reduction of soot and fine particles by more than 99% (based on the number of particles)
- Particularly suitable for low temperature applications
- Fully automatic, active regeneration
- Robust design due to the use of sintered metal (SMF®) => suitable for construction machines
- Operationally safe function
- Low maintenance
- Long service life
- NO<sub>2</sub> - neutral regeneration
- Easy cleaning of the filter with a high pressure cleaner



## Endress service portal



### Documentation & replacement parts

Do you want to have a quick look at the operating manual? Then you are in the right place here. The same applies to registering for contracted workshops.



### Support

You are searching for further information about your device and its operation? Our technical customer service is happy to help you. Put your questions to us now and allow yourself to be advised first hand.



### E-RMA

Checking of parameters and control of the power generator over a smartphone, tablet and PC – E-RMA makes this possible. Discover the optional features and register in order to be able to use advantageous functions such as alarm lists and location localisation in your everyday work.



### Maintenance and repairs

Do you need maintenance or repair work to be performed on your power generator? Then put your trust in our specialist engineers. You are taking the first step to fast and smooth processing by registering your device online for the Endress service workshop.



For further information:

Click here to go to the [endressparts](http://endressparts.com) homepage

**ENDRESS**   
endressparts.com

# EU Emissions Stage V

## Emission directive for mobile generators



### Endress has integrated EU Stage V engines in their generators, all of which comply with the new Emissions Directive for mobile generators

- Endress will be providing a full range of products with Stage V engines in the future
- Planning security for customers when buying generators

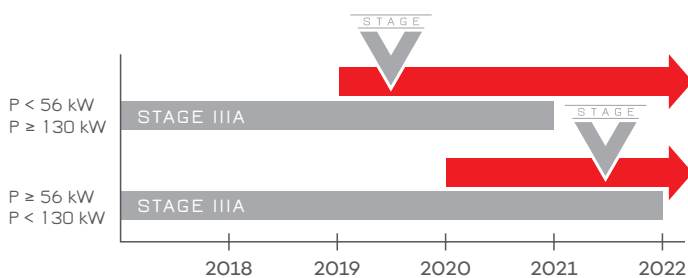
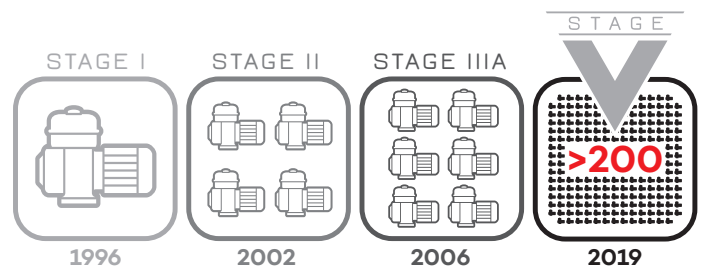
Directive 97/68/EU, which was introduced in Europe in December 1997, has significantly reduced pollutant emissions as a result of the increasing tightening of the emission standards for mobile generators. Stages I, II, IIIA, IIIB and IV of the emission limit values have been introduced on a step-by-step basis since then. Directive 97/68/EU became invalid in January 2017 and it was replaced by Regulation (EU) 2016/1628, which established the Stage IIIA emission standard in Europe.

### New EU emission standard Stage V valid as from 2019 in Europe

Further tightening of the emission regulations for mobile generators will come into force in 2019 and 2020.

The EU Stage V emissions standard will also apply to mobile generators with engines under 19 and above 560 kW for the first time. These power classes have been unregulated in the EU up to now as opposed to the markets controlled in compliance with the EPA standards.

The new emissions directive will significantly reduce the limit values over the next two years. 200 Stage V compliant generators will generate the same amount of pollutants as a single Stage I generator. This technological advancement presents a major challenge to engine and device manufacturers.



### What needs to be considered now?

Endress is well prepared for this and we will be offering Stage V engines in the entire product range in the future, recognisable by the new Stage V logo. Endress is positioning itself as an ecologically-oriented generator manufacturer. The new generators will be premiered at bauma 2019 in Munich. You will find us at outdoor stand FN.825/1.

The new EU Stage V emissions standard applies to generators in the <56 kW and ≥130 kW power ranges that will be sold after January 1, 2019. However, there will be a transitional period up to December 2020. The transitional period for generators in the 56 kW to 130 kW power range will run until December 2021. Stage 3A exhaust emission generators may still be sold during this period. However, emergency power systems for stationary operation are excluded from the new Stage V regulations.

# Information about the emergency power supply

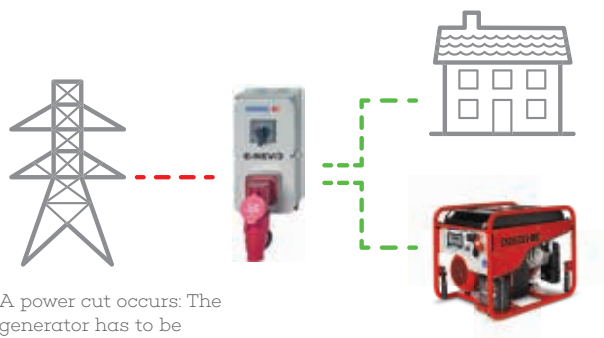
There are several options available for creating a simple but efficient emergency power supply.

We wish to show you some practical tips and ways for you to safeguard your building against a power cut.

## Emergency power supply with manual switchover

In this variant a power generator is connected to the supply distributor installed in the house if there is a power failure and is started manually.

- Economically favourable acquisition costs
- Simple installation by an electrician
- Emergency power supply operation can only be guaranteed if the power generator is manually started after a power failure
- Security of supply is not guaranteed



### ENDRESS supply distributors E-NEV

- Manual switchover between the public network and the generator
- Installation takes place by electricians between the mains network line and the junction box in the building (or on a special line for power consumers authorised to use emergency power)
- Secure switchover is secured through physical separation of both networks

Can be ordered in two versions:

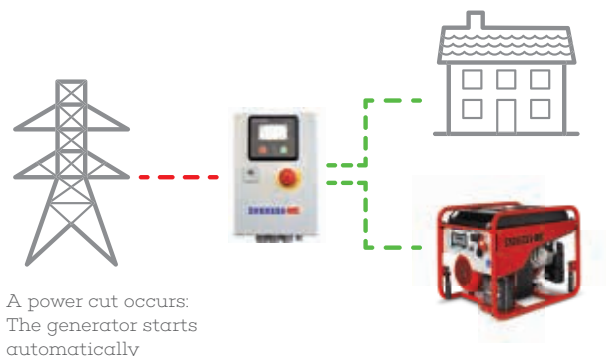
- E-NEV / 1 for feeding 230 V with 16 A or 32 A
- E-NEV / 3 for feeding 400 V with 16 A or 32 A

**Important!** Home installation and power feed must be handled only by a licensed electrical contractor. This guarantees safe and proper installation. The company will also be glad to advise you when selecting the correct emergency power supply. Tell your energy supplier about your plan and ensure that you are aware of the provisions listed in their General Terms and Conditions. The regulations vary state by state.

## Emergency power supply with automatic switchover

In this version an installed power generator is started and stopped automatically if there is a power failure. You do not have to be at home in order to protect your house if there is a power failure.

- Automatic Start / Stop operation in the case of a power failure
- Simple installation by an electrician
- Security of supply is guaranteed
- Acquisition costs somewhat higher than for manual operation



### ENDRESS Emergency Power Automatic E-ATS

- The E-MCS 5.0 automatic control panel for monitoring the public power grid and controlling the attached generator
- Switchover protections integrated in the stable metal housing IP 54
- Connector blocks for 400V or 230V building mains feed
- Charger for charging the battery on the generator
- A firmly cabled control line to the generator, 7 metres long
- Plug-and-Run plug connection for an ENDRESS power generator
- Temperature-dependent choke control system



**Double use with plug-and-run from ENDRESS!**  
Emergency power supply operation or mobile generator - it's your choice. The clever plug-and-run solution from ENDRESS offers you all options.



# Information on the emergency power supply

## Petrol, diesel or gas?

What is a suitable emergency power supply?

	Advantages	Disadvantages
Petrol	<ul style="list-style-type: none"> <li>Economically favourable acquisition costs</li> <li>Small, light and mobile power generator due to the design of the engine</li> </ul>	<ul style="list-style-type: none"> <li>In the case of a power failure the local filling station can also not pump any petrol</li> </ul>
Diesel	<ul style="list-style-type: none"> <li>Diesel fuel is somewhat more economical to use</li> </ul>	<ul style="list-style-type: none"> <li>Units are large and heavy due to the model of the engine</li> <li>Limited mobility</li> <li>High acquisition costs</li> <li>The local petrol station won't be able to pump any diesel in the event of a power failure</li> </ul>
Gas	<ul style="list-style-type: none"> <li>Operation is optionally possible with natural gas or liquefied gas</li> <li>Residue-free combustion</li> <li>Very economic fuel costs</li> <li>No accumulation of resins on the carburettor when unused for longer periods of time</li> </ul>	<ul style="list-style-type: none"> <li>Limited mobility when using natural gas</li> </ul>



## Installation location for a generator

Also when it sounds quite tempting - a generator must not be run inside a closed building! The installation location must always be selected in such a way that there is adequate cooling air present and exhaust gases can escape into the open unhindered. Installation inside buildings is only permitted in specially provided rooms. Please ask your district chimney sweep for advice if you have any questions.

When installed outdoors, the generator should be fitted with some form of protection against the weather in order to prevent moisture getting in.

## 230 V or 400 V - which variant is the correct one for me?

If you need a 400V supply in an emergency (e.g. for a cooker connection, workshop machines, etc.), then a 400V supply is an essential criterion for you. There are some things to take into consideration concerning feed into the power network. 400V networks are only to be supplied by a generator that is fitted with phase compensation or a phase control system in order to avoid any unbalanced loading (overload on one phase).

This could damage attached power consumers (for example televisions, computers).

Our generators from the DUPLEX series have an electronic phase control system fitted as a standard fitting that allows feeding into a household network. All ENDRESS generators can be used for providing a 230 V supply.

The information about a suitable ENDRESS generator can be found on the following pages:

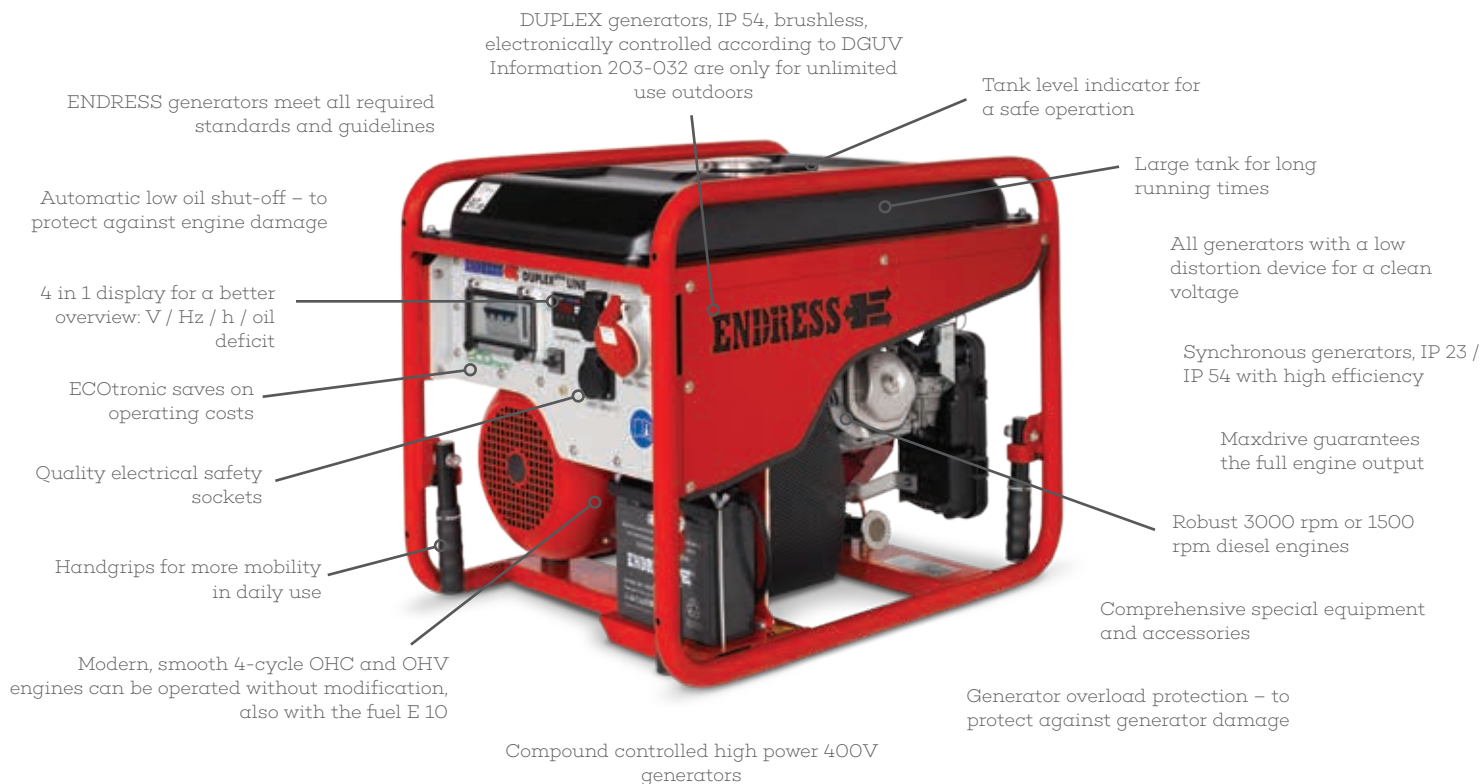
230V automatic / manual supply  
power range 1 - 10 kVA  
• Petrol unit **Page 20-32**  
• Diesel unit **Page 34-36**

400V automatic / manual supply  
Power range 6-15 kVA  
• Petrol unit **Page 28-32**  
• Diesel unit **Page 34-35**

Complete system GAS  
Automatic  
Power feed 230 V **Page 42**

Stationary  
Power supply systems  
Power range  
10 - 705 kVA **Page 49-70**

## The latest technology and the best quality — guaranteed



### Declaration of the model designation

ESE	10	08	S	D	H	S	DC	ES	DI	
										DI = Diesel engine
										ES = Electrical start
										DC = DC welding AC= AC welding
										G = DUPLEX generator S = Synchronous generator
										H = HONDA H = HATZ S = SUBARU B = BRIGGS & STRATTON
										R = ROBIN Y = YANMAR L = LOMBARDINI
										D = Three-phase current 400 V
										S = Welding generator
										04 = Model series, frame device without a large tank
										06 = Model series, frame device with a large tank
										08 = Model series, sound-insulating full enclosure
										10 = Output class
										ESE = ENDRESS GENERATORS

### Application factor

	SILENT Line	CLASSIC Power Line	PROFESSIONAL GT Line	DUPLEX plus Line	DUPLEX Silent Line	DUPLEX Silent Line DIESEL	DIESEL Line
Electronic appliances	●●●	●●	●	●●●	●●●	●●●	●
Electric tools	●●●	●●●	●●●	●●●	●●●	●●●	●●●
Gardening or construction equipment	●	●●	●●●	●●●	●●●	●●●	●●●
Welding equipment		●	●●	●●●	●●●	●●●	●●
Emergency power application	●●●	●	●	●●●	●●●	●●●	●
	Page 20	Page 22	Page 24	Page 28	Page 32	Page 34	Page 36

●●●: Particularly suitable

# SILENT Line

1.6 - 3.8 kVA



► ESE 2000i

The compact, handy format provides for mobile and super silent energy - for all cases.



Parallel connection ability (only ESE 2000i)



Synchronous



IP 23



inverter regulation



Sound insulated



Petrol

## SILENT Line

Electronic appliances	● ● ●
Electric tools	● ● ●
Gardening or construction equipment	●
Welding equipment	
Emergency power application	● ● ●

# SILENT Line

1.6 - 3.0 kVA



For further information:

Click here to go to our ESE 2000i maintenance video on YouTube

Petrol and diesel generators



## SILENT Line 1.6 - 3.0 kVA

Model	ESE 2000i	ESE 3000i
Order No.	110 005	110 006
Generator	Synchronous	Synchronous
Max. output kVA/kW	2.0 / 2.0	3.3 / 3.3
Continuous output kVA/kW	1.6 / 1.6	3.0 / 3.0
Rated voltage	230 V 1~ / 12 V =	230 V 1~ / 12 V =
Rated current	8,7 A 1~ / 8,3 A =	13,0 A 1~ / 8,3 A =
Power factor cos φ	1	1
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23
Engine type	YAMAHA MZ80 / 3.5 HP	ENDRESS
Construction type	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV
Displacement	79 cm <sup>3</sup>	171 cm <sup>3</sup>
Output at 3000 rpm	1.8 kW	4.2 kW
Fuel / tank capacity (litre)	Petrol / 4	Petrol / 6.8
Consumption / running time at 75% load of about <sup>(1)</sup>	0.7 l / 6 h	1.36 l / 5 h
Starting system	Recoil starter	E-Start incl. battery
Sound power level LWA	89 dB(A)	93 dB(A)
Sound pressure level LPA (7 m)	64 dB(A)	68 dB(A)
Weight (kg)	20	41
Dimensions L × W × H (mm)	540×330×505	588×442×452
Protective contact socket	1 × 230 V / 16 A 1 × 12 V	1 × 230 V / 16 A 1 × 12 V / 8.3 A 1 × USB 5V / 2.1A
Possible areas of application <sup>1</sup>	230 V	230 V
Electronic devices up to	1600 W	3000 W
Electric tools up to	1450 W	2750 W
Garden tools up to	1250 W	2350 W
Building equipment up to	—	—

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

- Inverter technology
- High-quality current
- Compact and quiet
- Easy handling

## Equipment features:

- Lack of oil automatic switch-off
- Generator overload protection
- Load dependent engine speed
- Connections for a 12V battery charge
- Parallel connection ability (only ESE 2000i)
- USB connection (ESE 3000i only)

Available accessories	Order No.	Suitable for
Maintenance kit	164 052	ESE 2000i
	164 053	ESE 3000i
IP 68 socket	110005.01	ESE 2000i
	110006.01	ESE 3000i



ESE 2000i with an IP 68 socket



ESE 3000i including folding transport handle



# CLASSIC Power Line

2.5 - 7.0 kVA



The compact format ensures high mobility and makes the Classic Power Line into an excellent power source for independent and professional work in the private, commercial or industrial areas.



Synchronous



IP 23



AVR regulation



Large tank



Petrol

## CLASSIC Power Line

Electronic appliances	● ●
Electric tools	● ● ●
Gardening or construction equipment	● ●
Welding equipment	●
Emergency power application	●

# CLASSIC Power Line

2.5 - 7.0 kVA



CLASSIC Power Line 2.5 - 7.0 kVA							
Model	ESE 306 HS-GT <sup>(2)</sup>	ESE 606 HS-GT <sup>(2)</sup>	ESE 606 HS-GT ES <sup>(2)</sup>	ESE 606 DHS-GT <sup>(2)</sup>		ESE 606 DHS-GT ES <sup>(2)</sup>	
	1~	1~	1~	3~	1~	3~	1~
Order No.	112 210	112 211	112 212	112 213		112 214	
Generator	Synchronous / AVR	Synchronous / AVR	Synchronous / AVR	Synchronous / AVR		Synchronous / AVR	
Max. output kVA/kW	2.8 / 2.8	6.3 / 6.3	6.3 / 6.3	7.5 / 6.0	4.2 / 4.2	7.5 / 6.0	4.2 / 4.2
Continuous output kVA/kW	2.5 / 2.5	5.8 / 5.8	5.8 / 5.8	7.0 / 5.6	3.7 / 3.7	7.0 / 5.6	3.7 / 3.7
Rated voltage	230 V 1~	230 V 1~	230 V 1~	400 V 3~	230 V 1~	400 V 3~	230 V 1~
Rated current	10.9 A 1~	25.2 A 1~	25.2 A 1~	10.8 A 3~	16.0 A 1~	10.8 A 3~	16.0 A 1~
Power factor cos φ	1	1	1	0.8	1	0.8	1
Frequency / Protection Class	50 Hz / IP23	50 Hz / IP23	50 Hz / IP23	50 Hz / IP23		50 Hz / IP23	
Engine type	HONDA GP 200	HONDA GX 390	HONDA GX 390	HONDA GX 390		HONDA GX 390	
Construction type	1-cylinder 4-stroke OHC,	1-cylinder 4-stroke OHC,	1-cylinder 4-stroke OHC,	1-cylinder 4-stroke OHC,		1-cylinder 4-stroke OHC,	
Displacement	196 cm <sup>3</sup>	389 cm <sup>3</sup>	389 cm <sup>3</sup>	389 cm <sup>3</sup>		389 cm <sup>3</sup>	
Output at 3000 rpm	3.3 kW	6.4 kW	6.4 kW	6.4 kW		6.4 kW	
Fuel / tank capacity (litre)	Petrol / 20	Petrol / 30	Petrol / 30	Petrol / 30		Petrol / 30	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.1 l / 18 h	2.2 l / 13 h	2.2 l / 13 h	2.1 l / 14 h		2.1 l / 14 h	
Starting system	Recoil starter	Recoil starter	E-Start incl. battery	Recoil starter		E-Start incl. battery	
Sound power level LWA	96 dB(A)	97 dB(A)	97 dB(A)	97 dB(A)		97 dB(A)	
Sound pressure level LPA (7 m)	71 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)		72 dB(A)	
Weight (kg)	49	85	92	90		97	
Dimensions L × W × H (mm)	640×475×526	786×570×600	786×570×600	786×570×600		786×570×600	
Protective contact socket	2 × 230 V 16 A	2 × 230 V 16 A 1 x CEE 230V 32A	2 × 230 V 16 A 1 x CEE 230V 32A	1 × 230 V 16 A 1 x CEE 400V 16A		1 × 230 V 16 A 1 x CEE 400V 16A	
Possible areas of application <sup>(1)</sup>	230 V	230 V	230 V	400 V	230 V	400 V	230 V
Electric tools up to	2100 W	4900 W	4900 W	4900 W	3200 W	4900 W	3200 W
Gardening or construction equipment up to	1500 W	3300 W	3300 W	3300 W	2200 W	3300 W	2200 W
Compressors or pumps up to	1100 W	2500 W	2500 W	2500 W	1600 W	2500 W	1600 W
Inverter welding equipment up to	-	-	-	Ø 2.5 mm		Ø 2.5 mm	

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Non-EU

Available accessories	Order No.	Suitable for
Maintenance kit	164 029	Model series ESE 606



## Equipment features

- Large tank for long running times
- Generator overload protection
- Tank level indicator
- 4 in 1 display for a better overview
- Folding handles
- AVR Automatic Voltage Regulation
- Lack of oil automatic switch-off
- Including wheelset (model series ESE 606)

# Professional GT Line

2.5 - 20.0 kVA



► ESE 606 DHS-GT

Professional generators with powerful synchronous generators.



Synchronous



IP 23



Low distortion device



Large tank



Petrol

## Professional GT Line

Electronic appliances	●
Electric tools	●●●
Gardening or construction equipment	●●●●
Welding equipment	●●
Emergency power application	●

# Professional GT Line

2.5 - 20.0 kVA

**ENDRESS** 



► ESE 606 HS-GT



Set of wheels optionally available

## Professional GT Line 2.5 - 6.0 kVA

Model	ESE 206 HS-GT 1~	ESE 306 HS-GT 1~	ESE 406 HS-GT 1~	ESE 506 DHS-GT 3~	ESE 606 HS-GT 1~
Order No.	112 300	112 301	112 302	112 304	112 303
Generator	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Max. output kVA/kW	2.9 / 2.6	3.4 / 3.1	5.1 / 4.6	6.3 / 5.0	7.2 / 6.4
Continuous output kVA/kW	2.5 / 2.2	2.9 / 2.6	4.2 / 3.9	5.4 / 4.3	6.0 / 5.5
Rated voltage	230 V 1~	230 V 1~	230 V 1~	400 V 3~	230 V 1~
Rated current	10.9 A 1~	12.5 A 1~	18.3 A 1~	7.7 A 3~	26.1 A 1~
Power factor cos φ	0.9	0.9	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23
Engine type	HONDA GX 160 / 5 HP	HONDA GX 200 / 5.5 HP	HONDA GX 270 / 8 HP	HONDA GX 270 / 8 HP	HONDA GX 390 / 11 HP
Construction type	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV
Displacement	163 cm <sup>3</sup>	196 cm <sup>3</sup>	270 cm <sup>3</sup>	270 cm <sup>3</sup>	389 cm <sup>3</sup>
Output at 3000 rpm	2.5 kW	3.3 kW	4.6 kW	4.6 kW	6.4 kW
Fuel / tank capacity (litre)	Petrol / 20	Petrol / 20	Petrol / 30	Petrol / 30	Petrol / 30
Consumption / running time at 75% load of about <sup>(1)</sup>	0.9 l / 22 h	1.1 l / 18 h	1.6 l / 18 h	1.6 l / 18 h	2.2 l / 13 h
Starting system	Recoil starter	Recoil starter	Recoil starter	Recoil starter	Recoil starter
Sound power level LWA	96 dB(A)	96 dB(A)	97 dB(A)	97 dB(A)	97 dB(A)
Sound pressure level LPA (7 m)	71 dB(A)	71 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)
Weight (kg)	41	43	61	69	73
Dimensions L × W × H (mm)	637×473×500	637×473×500	800×538×576	800×538×576	800×538×576
Protective contact socket	2 × 230 V / 16 A	2 × 230 V / 16 A	2 × 230 V / 16 A	1 × 230 V / 16 A 1 × CEE 400 V / 16 A	1 × 230 V / 16 A 1 × CEE 230 V / 32 A
Models with an electric starter (including battery)			ESE 406 HS-GT ES		ESE 606 HS-GT ES
Order No.			112 306		112 307
Weight (kg)			66		78
Possible areas of application <sup>(1)</sup>	230 V	230 V	230 V	400 V	230 V
Electric tools up to	2100 W	2500 W	3800 W	4200 W	5400 W
Gardening or construction equipment up to	1500 W	1700 W	2600 W	2900 W	3600 W
Compressors or pumps up to	1100 W	1300 W	2000 W	2200 W	2800 W
Inverter welding equipment up to	-	-	-	Ø 2.5 mm	

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding



## Equipment features

- Lack of oil automatic switch-off
- Generator overload protection
- HONDA + Briggs & Stratton OHV engines
- Large tank for long running times
- All generators with a low distortion device for a clean voltage
- Compound regulated high power generators for 400 V



# Professional GT Line

2.5 - 20.0 kVA



► ESE 1006 DBS-GT



► ESE 1206 HS-GT ES

Professional GT Line 7.0 - 11.8 kVA										
Model			ESE 606 DHS-GT		ESE 1006 DBS-GT		ESE 1206 HS-GT ES	ESE 1206 DHS-GT ES		
			3~	1~	3~	1~	1~	3~	1~	
Order No.			112 305		112 023		112 021		112 022	
Generator			Synchronous		Synchronous		Synchronous		Synchronous	
Max. output kVA/kW			8.3 / 6.6 4.9 / 4.4		11.0 / 8.8 6.6 / 5.9		11.9 / 10.7		13.9 / 11.1 9.2 / 8.3	
Continuous output kVA/kW			7.0 / 5.6 3.5 / 3.2		10.0 / 8.0 6.0 / 5.4		10.0 / 9.1		11.8 / 9.4 6.9 / 6.2	
Rated voltage			400 V 3~ 230 V 1~		400 V 3~ 230 V 1~		230 V 1~		400 V 3~ 230 V 1~	
Rated current			10.1 A 3~ 15.2 A 1~		14.4 A 3~ 26.1 A 1~		43.5 A 1~		17.0 A 3~ 30.0 A 1~	
Power factor cos φ			0.8 0.9		0.8 0.9		0.9		0.8 0.9	
Frequency / Protection Class			50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23	
Engine type			HONDA GX 390 / 11 HP		B&S VANGUARD / 18 HP		HONDA GX 630 / 21 HP		HONDA GX 630 / 21 HP	
Construction type			1-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV	
Displacement			389 cm³		570 cm³		688 cm³		688 cm³	
Output at 3000 rpm			6.4 kW		11.9 kW		10.5 kW		10.5 kW	
Fuel / tank capacity (litre)			Petrol / 30		Petrol / 16		Petrol / 24		Petrol / 24	
Consumption / running time at 75% load of about <sup>(1)</sup>			2.1 l / 14 h		2.9 l / 5 h		4.3 l / 5.5 h		4.2 l / 6 h	
Starting system			Recoil starter		Recoil starter		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA			97 dB(A)		97 dB(A)		96 dB(A)		96 dB(A)	
Sound pressure level LPA (7 m)			72 dB(A)		72 dB(A)		71 dB(A)		71 dB(A)	
Weight (kg)			81		119		162		165	
Dimensions L × W × H (mm)			800×538×576		930×560×630		960×641×667		960×641×667	
Protective contact socket			1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		2 × 230 V / 16 A 1 × CEE 400 V / 16 A		1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A		1 × 230 V / 16 A 2 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A	
Models with electrical starter <sup>(3)</sup>			ESE 606 DHS-GT ES		ESE 1006 DBS-GT					
Order No.			112 308		112 024					
Weight (kg)			86		130					
Possible areas of application <sup>(1)</sup>			400 V	230 V	400 V	230 V	230 V	400 V	230 V	
Electric tools up to			5500 W	3100 W	7900 W	5300 W	9000 W	9300 W	6100 W	
Gardening or construction equipment up to			3700 W	2100 W	5300 W	3600 W	6000 W	6200 W	4100 W	
Compressors or pumps up to			2800 W	1600 W	4000 W	2700 W	4500 W	4700 W	3100 W	
Inverter welding equipment up to			Ø 3.25 mm		Ø 4.5 mm			Ø 3.25 mm		
Available accessories	Order No.	Suitable for			Special equipment <sup>(2)</sup>		Order No.	Suitable for		
Maintenance kit	164 028	Model series ESE 206 - 306			FI protection switch		162 009	All models		
Maintenance kit	164 029	Model series ESE 406 - 606			Insulation monitoring		010 043	Model ESE 1006		
Maintenance kit	164 030	Model ESE 1006 DBS			Wireless		50 m 162 006	Model ESE 1006		
Maintenance kit	164 032	Model ESE 1206			remote control		20m 162 024	Models ESE 406, 606, 1206 (E-Start 230 V)		
Wheelset	161 000	Models ESE 306, 406, 506, 606			Wireless remote control		162 007	Model ESE 1006		
Wheelset	161 015	Model ESE 1006			Emergency Power Supply		162 332	Models ESE 406, 606, 1206 (E-Start 230 V)		
Wheelset	161 007	Model ESE 1206			3-way fuel valve		163 050	Model ESE 1006		
Crane loading device	161 103	Model ESE 1206			<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding <sup>(2)</sup> Not upgradable <sup>(3)</sup> Including battery					
Exhaust hose (1.5 m)	163 120	Model ESE 1006								
90° adapter for exhaust hose	163 130	Model ESE 1006								
Feed distributor E-NEV / 1-32	162 301	Models ESE 606, 1206 (230 V)								
Fuelling set	163 110	For a 3-way fuel valve								

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

<sup>(3)</sup> Including battery

# Professional GT Line

2.5 - 20.0 kVA

**ENDRESS** 

Petrol and diesel  
generators



- ESE 1306 HS-GT ES
- ESE 1306 DHS-GT ES
- ESE 1506 DHS-GT ES

- ESE 2006 DBS-GT

## Professional GT Line 9.0 - 20.0 kVA

Model	ESE 1306 HS-GT ES		ESE 1306 DHS-GT ES		ESE 1506 DHS-GT ES		ESE 2006 DBS-GT	
	1~		3~	1~	3~	1~	3~	1~
Order No.	<b>230 028</b>		<b>230 029</b>		<b>230 031</b>		<b>230 033</b>	
Generator	Synchronous		Synchronous		Synchronous		Synchronous	
Max. output kVA/kW	9.9 / 8.9		13.2 / 10.5		14.5 / 11.7		22.0 / 19.8	
Continuous output kVA/kW	9.0 / 8.1		12.0 / 9.6		13.2 / 10.6		20.0 / 18.0	
Rated voltage	230 V 1~		400 V 3~		230 V 1~		400 V 3~	
Rated current	39.1 A 1~		17.3 A 3~		30.0 A 1~		28.9 A 3~	
Power factor cos φ	0.9		0.8		0.9		0.8	
Frequency / Protection Class	50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23	
Engine type	HONDA GX 630 / 21 HP		HONDA GX 630 / 21 HP		HONDA GX 690 / 22 HP		BRIGGS & STRATTON / 35 HP	
Construction type	2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV	
Displacement	688 cm <sup>3</sup>		688 cm <sup>3</sup>		688 cm <sup>3</sup>		993 cm <sup>3</sup>	
Output at 3000 rpm	10.5 kW		10.5 kW		11.5 kW		21.0 kW	
Fuel / tank capacity (litre)	Petrol / 16		Petrol / 16		Petrol / 16		Petrol / 35	
Consumption / running time at 75% load of about <sup>(1)</sup>	3.5 l / 4.5 h		3.5 l / 4.5 h		4.2 l / 3.8 h		7.5 l / 4.6 h	
Starting system	E-Start incl. battery		E-Start incl. battery		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA	102 dB(A) <sup>(2)</sup>		102 dB(A) <sup>(3)</sup>		103 dB(A) <sup>(3)</sup>		104 dB(A) <sup>(3)</sup>	
Sound pressure level LPA (7 m)	77 dB(A)		77 dB(A)		78 dB(A)		79 dB(A)	
Weight (kg)	137		137		140		230	
Dimensions L × W × H (mm)	945×570×645		945×570×645		945×570×645		1100×700×890	
Protective contact socket	1 × 230 V / 16 A 1 × CEE 230 V / 32 A		1 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		1 × CEE 230 V / 16 A 1 × CEE 400 V / 32 A		1 × CEE 230 V / 16 A 1 × CEE 400 V / 32 A	
Possible areas of application <sup>(1)</sup>	230 V		400 V		230 V		400 V	
Electric tools up to	8000 W		9300 W		6100 W		10500 W	
Gardening or construction equipment up to	5400 W		6200 W		4100 W		6200 W	
Compressors or pumps up to	4000 W		4700 W		3100 W		5200 W	
Inverter welding equipment up to	-		Ø 5.0 mm		Ø 6.0 mm		Ø 6.0 mm	

Available accessories	Order No.	Suitable for
Maintenance kit	<b>164 032</b>	Models ESE 1306, 1506
Wheelset	<b>161 015</b>	Models ESE 1306, 1506
Wheelset	<b>161 034</b>	Model ESE 2006
Feed distributor E-NEV / 1-32	<b>162 301</b>	Model ESE 1306 (230 V)
Fuelling set	<b>163 110</b>	For a 3-way fuel valve

Special equipment <sup>(2)</sup>	Order No.	Suitable for
FI protection switch	<b>162 009</b>	All models
Cable remote control (50 m)	<b>162 006</b>	Models ESE 1306, 1506, 2006
Wireless remote control	<b>162 007</b>	Models ESE 1306, 1506, 2006
Emergency Power Supply	<b>162 332</b>	Model ESE 1306 (E-Start 230 V)
3-way fuel valve	<b>163 050</b>	All models

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

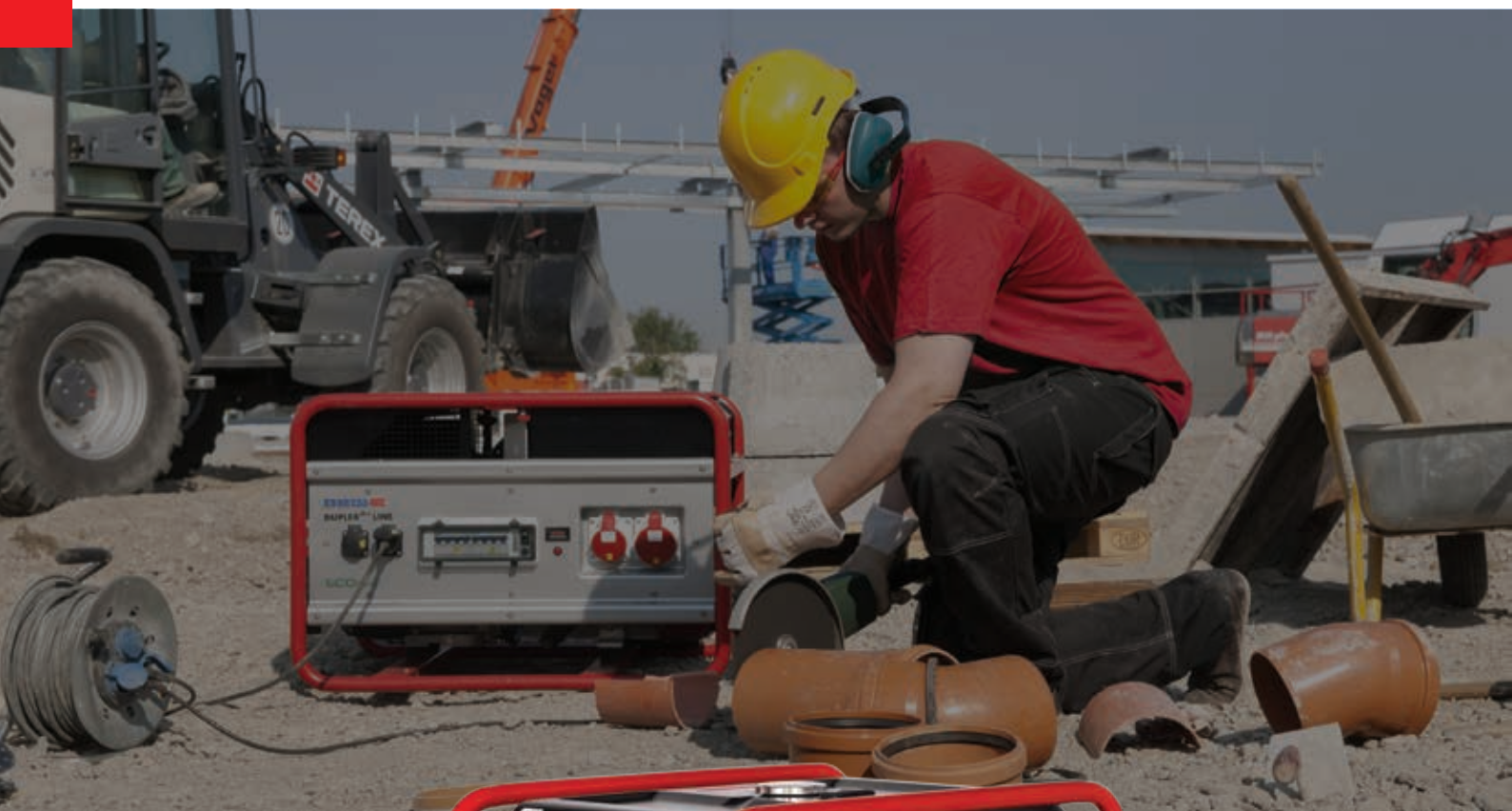
<sup>(2)</sup> Not upgradable

<sup>(3)</sup> Does not conform to EU Noise Guideline 2000/14/EU

## DUPLEXPLUS Line

4.0 - 15.0 kVA

**ENDRESS** 



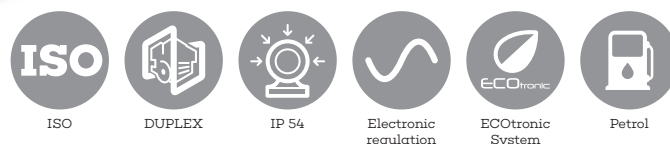
A mains supply socket with transfer switching equipment for supplying power according to VDE 0100-551:2017-02 is available as an option



*Especially suitable for use at construction and assembly sites according to DGUV information 203 - 032*

► ESE 606 DHG-GT ES DUPLEX

Mobile power generation with futuristic technology. The **DUPLEXPLUS** line combines performance and economy.



### DUPLEXPLUS Line

Electronic appliances	●●●
Electric tools	●●●
Gardening or construction equipment	●●●
Welding equipment	●●●
Emergency power application	●●●



For further  
information:

Click here to go to our  
**DUPLEXplus** video on  
YouTube



# DUPLEXPLUS Line

4.0 - 6.0 kVA

**ENDRESS** 

Petrol and diesel  
generators



► ESE 406 HG-GT DUPLEX



Set of wheels optionally  
available

► ESE 606 DHG-GT DUPLEX

## DUPLEXPLUS Line 4.0 - 5.0 kVA

Model	ESE 406 HG-GT <b>ISO</b> DUPLEX	ESE 406 HG-GT ES <b>ISO</b> DUPLEX	ESE 506 HG-GT <b>ISO</b> DUPLEX
Order No.	<b>113 552I</b>	<b>113 553I</b>	<b>113 554I</b>
Generator	DUPLEX	DUPLEX	DUPLEX
Max. output kVA/kW	4.4 / 4.4	4.4 / 4.4	5.5 / 5.5
Continuous output kVA/kW	4.0 / 4.0	4.0 / 4.0	5.0 / 5.0
Rated voltage	230 V 1~	230 V 1~	230 V 1~
Rated current	17.4 A 1~	17.4 A 1~	21.7 A 1~
Power factor cos φ	1	1	1
Frequency / Protection Class	50 Hz / IP 54	50 Hz / IP 54	50 Hz / IP 54
Engine type	HONDA GX 270 / 8 HP	HONDA GX 270 / 8 HP	HONDA GX 390 / 11 HP
Construction type	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV
Displacement	270 cm <sup>3</sup>	270 cm <sup>3</sup>	389 cm <sup>3</sup>
Output at 3000 rpm	4.6 kW	4.6 kW	6.4 kW
Fuel / tank capacity (litre)	Petrol / 33	Petrol / 33	Petrol / 33
Consumption / running time at 75% load of about <sup>(1)</sup>	1.6 l / 20.5 h	1.6 l / 20.5 h	2.2 l / 15 h
Starting system	Recoil starter	E-Start incl. battery	Recoil starter
Sound power level LWA	97 dB(A)	97 dB(A)	97 dB(A)
Sound pressure level LPA (7 m) <sup>(2)</sup>	64 dB(A)	64 dB(A)	60 dB(A)
Weight (kg)	94	103	102
Dimensions L × W × H (mm)	780×550×595	780×550×595	780×550×595
Protective contact socket	2 × 230 V / 16 A 1 × CEE 230 V / 32 A	2 × 230 V / 16 A 1 × CEE 230 V / 32 A	2 × 230 V / 16 A 1 × CEE 230 V / 32 A
Possible areas of application <sup>(1)</sup>	230 V	230 V	230 V
Electronic devices up to	4000 W	4000 W	5000 W
Electric tools up to	3900 W	3900 W	4900 W
Gardening or construction equipment up to	2700 W	2700 W	3300 W
Compressors or pumps up to	2000 W	2000 W	2500 W
Inverter welding equipment up to	Ø 2.5 mm	Ø 2.5 mm	Ø 2.5 mm

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> ECOtronic active



## DUPLEXPLUS - the advantages at a glance

- Operating costs are lowered \*
- Reduction in pollutant emissions \*
- Significantly reduced noise emissions \*
- Up to 30% less fuel consumption \*
- Protection class IP 54 — protected from dust and spray
- Brushless, electronically regulated synchronous generator
- Voltage stability ±1% with 3~ generators
- Brushless technology provides 20,000 operating hours
- 200% Suitable for balanced load in actual operation
- Combines and strengthens the advantages of asynchronous and synchronous generators
- Simultaneous use by electronic and inductive appliances

ECOtronic is not needed with the IT-TN version)



# DUPLEXPLUS Line

10.0 kVA



► ESE 606 DHG-GT ES DUPLEX

## DUPLEXPLUS Line 5.0 - 6.0 kVA

Model	ESE 506 HG-GT ES <b>ISO</b> DUPLEX		ESE 606 DHG-GT <b>ISO</b> DUPLEX		ESE 606 DHG-GT ES <b>ISO</b> DUPLEX	
	1~		3~	1~	3~	1~
Order No.	<b>113 555I</b>		<b>113 556I</b>		<b>113 557I</b>	
Generator	DUPLEX		DUPLEX		DUPLEX	
Max. output kVA/kW	5.5 / 5.5		6.6 / 5.3		6.6 / 5.3	
Continuous output kVA/kW	5.0 / 5.0		6.0 / 4.8		6.0 / 4.8	
Rated voltage	230 V 1~		400 V 3~		400 V 3~	
Rated current	21.7 A 1~		8.7 A 3~		8.7 A 3~	
Power factor cos φ	1		0.8		0.8	
Frequency / Protection Class	50 Hz / IP 54		50 Hz / IP 54		50 Hz / IP 54	
Engine type	HONDA GX 390 / 11 HP		HONDA GX 390 / 11 HP		HONDA GX 390 / 11 HP	
Construction type	1-cylinder 4-stroke OHV		1-cylinder 4-stroke OHV		1-cylinder 4-stroke OHV	
Displacement	389 cm <sup>3</sup>		389 cm <sup>3</sup>		389 cm <sup>3</sup>	
Output at 3000 rpm	6.4 kW		6.4 kW		6.4 kW	
Fuel / tank capacity (litre)	Petrol / 33		Petrol / 33		Petrol / 33	
Consumption / running time at 75% load of about <sup>(1)</sup>	2.2 l / 15 h		2.1 l / 15.5 h		2.1 l / 15.5 h	
Starting system	E-Start incl. battery		Recoil starter		E-Start incl. battery	
Sound power level LWA	97 dB(A)		97 dB(A)		97 dB(A)	
Sound pressure level LPA (7 m) <sup>(2)</sup>	60 dB(A)		60 dB(A)		60 dB(A)	
Weight (kg)	111		104		113	
Dimensions L × W × H (mm)	780×550×595		780×550×595		780×550×595	
Protective contact socket	2 × 230 V / 16 A 1 × CEE 230 V / 32 A		2 × 230 V / 16 A 1 × CEE 400 V / 16 A		2 × 230 V / 16 A 1 × CEE 400 V / 16 A	
Possible areas of application <sup>(3)</sup>	230 V		400 V		400 V	
Electronic devices up to	5000 W		4800 W		4800 W	
Electric tools up to	4900 W		4700 W		4700 W	
Gardening or construction equipment up to	3300 W		3200 W		3200 W	
Compressors or pumps up to	2500 W		2400 W		2400 W	
Inverter welding equipment up to	Ø 2.5 mm		Ø 3.25 mm		Ø 3.25 mm	

Available accessories	Order No.	Suitable for
Maintenance kit	<b>164 029</b>	Model series ESE 406, 506, 606
Wheelset	<b>161 024</b>	Model series ESE 406, 506, 606
Feed distributor E-NEV / 1-32	<b>162 301</b>	Model series ESE 406, 506 (230V)
Feed distributor E-NEV / 3-16	<b>162 303</b>	Model series ESE 606

Special equipment <sup>(3)</sup>	Order No.	Suitable for
FI protection switch	<b>162 009</b>	All models
Cable remote control 50 m	<b>162 006</b>	Series with electrical starting
Wireless remote control	<b>162 007</b>	Series with electrical starting
Emergency Power Supply	<b>162 330</b>	Series with electrical starting
Exhaust hose (1.5 m)	<b>162 333</b>	All models
IT-TN switchover system with a mains supply socket <sup>(5)</sup>	<b>162 045</b>	All models
60 Hz version	on request	
E-RMA SIM <sup>(4)</sup>	<b>342 220</b>	
E-RMA LAN <sup>(4)</sup>	<b>342 221</b>	
E-RMA web supervisor's annual fee <sup>(6)</sup>	<b>342 222</b>	

## Equipment features

- Includes insulation monitoring in accordance with VDE 0100-551 2017:02
- ECOtronic system (not required for version IT-TN)
- Honda OHV engines
- 3 in 1 display = V / Hz / h
- Tank level indicator
- Lack of oil automatic switch-off
- Generator overload protection
- Folding handles
- A crane mount is integrated as standard in the frame
- A slide compartment for the short operating instructions and a tool is integrated directly under the tank
- Control panel with Protection Class IP 54

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> ECOtronic active

<sup>(3)</sup> Not upgradable

<sup>(4)</sup> Only in combination with an automatic emergency power supply

<sup>(5)</sup> ECOtronic system not needed with IT-TN version

<sup>(6)</sup> Only in combination with E-RMA

# DUPLEXPLUS Line

12.0 - 15.0 kVA

**ENDRESS** 

► ESE 1006-1506 DHG-GT ES DUPLEX



Set of wheels  
optionally available

## DUPLEXPLUS Line 10.0 - 15.0 kVA

Model	ESE 1006 HG-GT ES <b>ISO</b> DUPLEX		ESE 1006 DHG-GT ES <b>ISO</b> DUPLEX		ESE 1306 DHG-GT ES <b>ISO</b> DUPLEX		ESE 1506 DHG-GT ES <b>ISO</b> DUPLEX	
	1~		3~	1~	3~	1~	3~	1~
Order No.	<b>113 260I</b>		<b>113 261I</b>		<b>113 258I</b>		<b>113 259I</b>	
Generator	DUPLEX		DUPLEX		DUPLEX		DUPLEX	
Max. output kVA/kW	8.8 / 8.0		11.0 / 8.8		12.2 / 9.8		13.7 / 11.0	
Continuous output kVA/kW	8.0 / 7.2		10.6 / 8.5		12.0 / 9.6		13.0 / 10.4	
Rated voltage	230 V 1~		400 V 3~		400 V 3~		400 V 3~	
Rated current	34.8 A 1~		14.4 A 3~		15.8 A 3~		17.8 A 3~	
Power factor cos φ	0.9		0.8		0.8		0.8	
Frequency / Protection Class	50 Hz / IP 54		50 Hz / IP 54		50 Hz / IP 54		50 Hz / IP 54	
Engine type	HONDA GX 630		HONDA GX 630		HONDA GX 690		HONDA GX 690	
Construction type	2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV	
Displacement	688 cm <sup>3</sup>		688 cm <sup>3</sup>		688 cm <sup>3</sup>		688 cm <sup>3</sup>	
Output at 3000 rpm	12.4 kW		12.4 kW		13.2 kW		13.2 kW	
Fuel / tank capacity (litre)	Petrol / 20		Petrol / 20		Petrol / 20		Petrol / 20	
Consumption / running time at 75% load of about <sup>(1)</sup>	3.6 l / 5.6 h		4.2 l / 4.8 h		4.5 l / 4.4 h		5.2 l / 3.8 h	
Starting system	E-Start incl. battery		E-Start incl. battery		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA	97 dB(A)		97 dB(A)		97 dB(A)		99 dB(A) <sup>(5)</sup>	
Sound pressure level LPA (7 m) <sup>(2)</sup>	67 dB(A)		67 dB(A)		65 dB(A)		69 dB(A)	
Weight (kg)	164		165		165		174	
Dimensions L × W × H (mm)	870×580×565		870×580×565		870×580×565		870×580×565	
Protective contact socket	2 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A		2 × 230 V / 16 A 2 × CEE 400 V / 16 A		2 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A		2 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A	
Possible areas of application <sup>(1)</sup>	230 V		400 V		400 V		400 V	
Electronic devices up to	7200 W		8000 W		9600 W		10400 W	
Electric tools up to	7100 W		7900 W		9500 W		10300 W	
Gardening or construction equipment up to	4800 W		5300 W		6400 W		7000 W	
Compressors or pumps up to	3600 W		3700 W		4800 W		5200 W	
Inverter welding equipment up to	Ø 4.5 mm		Ø 4.5 mm		Ø 6.5 mm		Ø 6.5 mm	

Available accessories	Order No.	Suitable for
Maintenance kit	<b>164 032</b>	ESE 1006, 1306, 1506
Wheelset	<b>161 040</b>	ESE 1006, 1306, 1506
Exhaust hose (1.5 m)	<b>163 120</b>	All models
90° adapter for exhaust hose	<b>163 130</b>	All models
Feed distributor E-NEV/1-32	<b>162 301</b>	Model ESE 1006 SG-GT ES
Feed distributor E-NEV/3-16	<b>162 303</b>	Model ESE 1006 DSG-GT ES
Feed distributor E-NEV/3-32	<b>162 304</b>	Model series ESE 1306, 1506

Special equipment <sup>(3)</sup>	Order No.	Suitable for
FI protection switch	<b>162 009</b>	All models
Cable remote control 50 m	<b>162 006</b>	All models
Wireless remote control	<b>162 007</b>	All models
Emergency Power Supply	<b>162 330</b>	All models
IT-TN switchover system with a mains supply socket <sup>(6)</sup>	<b>162 045</b>	All models

60 Hz version	on request
E-RMA SIM <sup>(4)</sup>	<b>342 220</b>
E-RMA LAN <sup>(4)</sup>	<b>342 221</b>
E-RMA web supervisor's annual fee <sup>(7)</sup>	<b>342 222</b>

## Equipment features

- Includes insulation monitoring in accordance with VDE 0100-551 2017:02
- ECOTronic system (not needed with IT-TN version)
- HONDA 2-cylinder OHV engines
- 4 in 1 display = V / Hz / h / oil deficit
- Tank level indicator
- Lack of oil automatic switch-off
- Generator overload protection
- Crane loading lug
- Folding handles

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> ECOTronic active

<sup>(3)</sup> Not upgradable

<sup>(4)</sup> Only in combination with an automatic emergency power supply

<sup>(5)</sup> Does not conform to EU Noise Guideline 2000/14/EU

<sup>(6)</sup> ECOTronic system not needed with IT-TN version

<sup>(7)</sup> Only in combination with E-RMA

# DUPLEXSILENT Line

8.0 - 14.0 kVA



Especially suitable for use at construction and assembly sites according to DGUV information 203 - 032

► ESE 1308 DBG ES

The **DUPLEXSILENT** line guarantees maximum performance and reliability. Designed for professional use that demands reduced noise.

ISO

DUPLEX

IP 54

Electronic regulation

Sound-proofed

Petrol

DUPLEXSILENT Line	
Electronic appliances	●●●
Electric tools	●●●
Gardening or construction equipment	●●●
Welding equipment	●●●
Emergency power application	●●●



maxdrive



### ESE 1408 DBG ES - the advantages at a glance

- An increase in the power output by 10%
- Rpm remains stable under heavy load
- A constant frequency, also in the upper rpm range

DUPLEXSILENT Line 9,0 - 14,0 kVA						
Model	ESE 908 DBG ES ISO DUPLEX SILENT		ESE 1308 DBG ES ISO DUPLEX SILENT		ESE 1408 DBG ES ISO DUPLEX SILENT	
	3~	1~	3~	1~	3~	1~
Order No.	113 007I		113 008I		113 022I	
Generator	DUPLEX		DUPLEX		DUPLEX	
Max. output kVA/kW	9.9 / 7.9	5.5 / 5.0	14.3 / 11.4	7.7 / 6.9	14.5 / 11.6	7.7 / 6.9
Continuous output kVA/kW	9.0 / 7.2	6.0 / 5.4	13.2 / 10.6	7.2 / 6.5	13.7 / 10.9	7.5 / 6.7
Rated voltage	400 V 3~	230 V 1~	400 V 3~	230 V 1~	400 V 3~	230 V 1~
Rated current	12.9 A 3~	26.1 A 1~	19.1 A 3~	31.3 A 1~	19.8 A 3~	32.6 A 1~
Power factor cos φ	0.8	0.9	0.8	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 54		50 Hz / IP 54		50 Hz / IP 54	
Engine type	B&S VANGUARD / 16 HP		B&S VANGUARD / 23 HP		B&S VANGUARD / 23 HP	
Construction type	2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV		2-cylinder 4-stroke OHV	
Displacement	479 cm <sup>3</sup>		627 cm <sup>3</sup>		627 cm <sup>3</sup>	
Output at 3000 rpm	9.5 kW		15.0 kW		15.0 kW	
Fuel / tank capacity (litre)	Petrol / 12		Petrol / 12		Petrol / 12	
Consumption / running time at 75% load of about <sup>(1)</sup>	2.4 l / 5 h		3.4 l / 3.5 h		3.4 l / 3.5 h	
Starting system	E-Start incl. battery		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA	89 dB(A)		93 dB(A)		93 dB(A)	
Sound pressure level LPA (7 m)	64 dB(A)		68 dB(A)		68 dB(A)	
Weight (kg)	132		150		150	
Dimensions L × W × H (mm)	820×440×580		820×440×580		820×440×580	
Protective contact socket	3 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A		3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A	
Possible areas of application <sup>(1)</sup>	400 V	230 V	400 V	230 V	400 V	230 V
Electronic devices up to	6400 W	4500 W	10400 W	6300 W	11400 W	6300 W
Electric tools up to	6300 W	4400 W	10300 W	6200 W	11300 W	6200 W
Gardening or construction equipment up to	4300 W	3000 W	6900 W	4200 W	7500 W	4200 W
Compressors or pumps up to	3200 W	2200 W	5200 W	3100 W	5600 W	3100 W
Inverter welding equipment up to	Ø 4.0 mm		Ø 6.5 mm		Ø 6.5 mm	
Available accessories	Order No.	Suitable for	Special equipment <sup>(2)</sup>	Order No.	Suitable for	
Maintenance kit	164 030	Model ESE 908	ECOTronic System	163 020	All models	
Maintenance kit	164 031	Models ESE 1308, 1408	Automatic choke	163 030	All models	
Exhaust hose (1.5 m)	163 120	All models	E-MCS 4.0 multi-function control display	162 314	All models	
90° adapter for exhaust hose	163 130	All models	FI protection switch	162 009	All models	
Feed distributor E-NEV / 3-16	162 303	Model ESE 908	Cable remote control 50 m	162 006	All models	
Feed distributor E-NEV / 3-32	162 304	Model series ESE 1308, 1408	Wireless remote control	162 007	All models	
Fuelling set	163 110	All models	Emergency Power Supply	162 330	All models	
			60 Hz version	on request		
			E-RMA SIM <sup>(3)</sup>	342 220		
			E-RMA LAN <sup>(3)</sup>	342 221		
			E-RMA web supervisor's annual fee <sup>(4)</sup>	342 222		

(1) This data is based on average values as individual cases can vary and therefore they are not binding

(2) Not upgradable

(3) Only in combination with an automatic emergency power supply

(4) Only in combination with E-RMA



### Equipment features

- Includes insulation monitoring in accordance with VDE 0100-551 2017:02
- Noise insulating housing for low operating noises
- A light construction due to use of aluminium components
- Connection for external fuelling
- Operating hours counter
- Lack of oil automatic switch-off
- Generator overload protection
- Folding handles



# DUPLEXSILENT Line Diesel

6.0 - 14.0 kVA



Especially suitable for use at construction and assembly sites according to DGUV information 203 - 032

► ESE 1408 DLG ES DI

The **DUPLEX**Silent line with HATZ and Lombardini diesel engines has proven itself in daily continuous use - it does not matter where, when or how - thanks to its superior and robust quality. A compact construction with innovative generator technology for an indispensable unit for professional independence from a mains network.

ISO

DUPLEX

IP 54

Electronic regulation

Sound -proofed

Diesel

DUPLEXSILENT Line Diesel	
Electronic appliances	●●●
Electric tools	●●●
Gardening or construction equipment	●●●
Welding equipment	●●●
Emergency power application	●●●

# DUPLEXSILENT Line Diesel

6.0 - 14.0 kVA



## ESE 608 DHG ES DI

- Connection for external fuelling
- 1-click system incl. fuel pump
- Folding handles



## ESE 1008

## ESE 1408 DHG ES DI

- Compact dimensions - fits on a Euro pallet
- Large tank 35 litres

DUPLEXSILENT Line Diesel 6.0 - 14.0 kVA					
Model	ESE 608 DHG ES DI <b>ISO</b> DUPLEX Silent		ESE 1008 LG ES DI <b>ISO</b> DUPLEX Silent	ESE 1408 DLG ES DI <b>ISO</b> DUPLEX Silent	
	3~	1~	1~	3~	1~
Order No.	113 023I		113 038I	113 037I	
Generator	DUPLEX		DUPLEX	DUPLEX	
Max. output kVA/kW	6.6 / 5.3	4.4 / 4.0	11.0 / 9.9	15.4 / 12.3	7.7 / 6.9
Continuous output kVA/kW	6.0 / 4.8	4.0 / 3.6	10.0 / 9.0	14.0 / 11.2	7.0 / 6.3
Rated voltage	400 V 3~	230 V 1~	230 V 1~	400 V 3~	230 V 1~
Rated current	8.7 A 3~	17.4 A 1~	43.5 A 1~	20.2 A 3~	30.4 A 1~
Power factor cos φ	0.8	0.9	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 54		50 Hz / IP 54	50 Hz / IP 54	
Engine type	HATZ 1B 50 / 11 HP		LOMBARDINI 12LD477 / 23 HP	LOMBARDINI 12LD477 / 23 HP	
Construction type	1-cylinder 4-stroke		2-cylinder 4-stroke	2-cylinder 4-stroke	
Displacement	517 cm³		954 cm³	954 cm³	
Output at 3000 rpm	7.6 kW		13.8 kW	13.8 kW	
Fuel / tank capacity (litre)	Diesel / 6		Diesel / 35	Diesel / 35	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.3 l / 4.5 h		2.4 l / 14.5 h	3.0 l / 11.5 h	
Starting system	E-Start incl. battery		E-Start incl. battery	E-Start incl. battery	
Sound power level LWA	94 dB(A)		93 dB(A)	93 dB(A)	
Sound pressure level LPA (7 m)	69 dB(A)		68 dB(A)	68 dB(A)	
Weight (kg)	150		310	320	
Dimensions L × W × H (mm)	700×440×580		1100×700×870	1100×700×870	
Protective contact socket	3 × 230 V / 16 A 1 × CEE 400 V / 16 A		3 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A	
Possible areas of application <sup>(1)</sup>	400 V	230 V	230 V	400 V	230 V
Electronic devices up to	4800 W	3600 W	9000 W	11400 W	6300 W
Electric tools up to	4700 W	3500 W	8900 W	11300 W	6200 W
Gardening or construction equipment up to	3200 W	2400 W	6000 W	7500 W	4200 W
Compressors or pumps up to	2400 W	1800 W	4500 W	5600 W	3100 W
Inverter welding equipment up to	Ø 3.25 mm		Ø 4.5 mm	Ø 6.5 mm	
Available accessories	Order No.	Suitable for	Special equipment <sup>(2)</sup>	Order No.	Suitable for
Maintenance kit	164 034	Model ESE 608	ECOftronic System	162 201	Model series ESE 1008, 1408
Maintenance kit	164 039	Models ESE 1008-1408			
Exhaust hose (1.5 m)	163 120	All models	Connection for external fuelling	162 025	Model series ESE 1008, 1408
90° adapter for exhaust hose	163 130	All models			
Feed distributor E-NEV / 1-32	162 301	Model ESE 1008	E-MCS 4.0 multi-function control display	162 314	Model ESE 608
Feed distributor E-NEV / 3-16	162 303	Model ESE 608	FI protection switch	162 009	All models
Feed distributor E-NEV / 3-32	162 304	Model ESE 1408	Cable remote control 50 m	162 016	All models
Fuelling set	163 110	Model ESE 608	Wireless remote control	162 015	All models
Wheelset	161 034	Models ESE 1008, 1408	Emergency Power Supply	162 320	All models
Chassis FG 75 ST	341 116	Models ESE 1008, 1408	60 Hz version	on request	
Chassis FG 75 HV	341 117	Models ESE 1008, 1408	E-RMA SIM <sup>(3)</sup>	342 220	
			E-RMA LAN <sup>(3)</sup>	342 221	
			E-RMA web supervisor's annual fee <sup>(4)</sup>	342 222	
			EDS 4/2000 Dual Speed, 4.0 kVA [COP] / 4.4 kVA [LTP]	610 100	Model ESE 1408
			IT-TN switchover system with a mains supply socket	162 042	Model ESE 1408

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

<sup>(3)</sup> Only in combination with an automatic emergency power supply

<sup>(4)</sup> Only in combination with E-RMA

(1) This data is based on average values as individual cases can vary and therefore they are not binding

(2) Not upgradable

(3) Only in combination with an automatic emergency power supply

(4) Only in combination with E-RMA



## Equipment features for all models

- Includes insulation monitoring in accordance with VDE 0100-551 2017:02
- Noise insulating housing for low operating noises
- HATZ & Lombardini diesel engines
- Starter battery 12 V
- Generator overload protection
- Crane loading capability

# DIESELSILENT Line

3.2 - 11.0 kVA



## Model series ESE 406

- Insulation monitoring
- Voltmeter
- Large tank 18 litres



► ESE 406 YS-GT ISO DI

DIESELSILENT Line 3.2 - 5.6 kVA					
Model	ESE 406 YS-GT <b>ISO</b> DI	ESE 606 YS-GT ES <b>ISO</b> DI	ESE 608 YS-GT ES DI	ESE 608 DYS-GT ES DI	
	1~	1~	1~	3~	1~
Order No.	122 001	122 009	131 009A	131 010A	
Generator	Synchronous	Synchronous	Synchronous	Synchronous	
Max. output kVA/kW	3.8 / 3.4	6.0 / 5.4	5.9 / 5.4	6.9 / 5.5	4.6 / 4.1
Continuous output kVA/kW	3.2 / 2.9	4.9 / 4.4	4.9 / 4.4	5.6 / 4.5	3.3 / 3.0
Rated voltage	230 V 1~	230 V 1~	230 V 1~	400 V 3~	230 V 1~
Rated current	13.9 A 1~	21.3 A 1~	21.3 A 1~	8.2 A 3~	14.3 A 1~
Power factor cos φ	0.9	0.9	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	
Engine type	YANMAR L 70 / 6.7 HP	YANMAR L 100 / 10 HP	YANMAR L 100 / 10 HP	YANMAR L 100 / 10 HP	
Construction type	1-cylinder 4-stroke	1-cylinder 4-stroke	1-cylinder 4-stroke	1-cylinder 4-stroke	
Displacement	296 cm <sup>3</sup>	435 cm <sup>3</sup>	435 cm <sup>3</sup>	435 cm <sup>3</sup>	
Output at 3000 rpm	4.1 kW	5.7 kW	5.7 kW	5.7 kW	
Fuel / tank capacity (litre)	Diesel / 18	Diesel / 24	Diesel / 19	Diesel / 19	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.0 l / 18 h	1.3 l / 18.5 h	1.5 l / 13 h	1.5 l / 13 h	
Starting system	Recoil starter	E-Start incl. battery	E-Start incl. battery	E-Start incl. battery	
Sound power level LWA	96 dB(A)	93 dB(A)	84 dB(A)	84 dB(A)	
Sound pressure level LPA (7 m)	71 dB(A)	68 dB(A)	56 dB(A)	56 dB(A)	
Weight (kg)	99	186	203	203	
Dimensions L × W × H (mm)	800×520×660	945×595×825	970×580×927	970×580×927	
Protective contact socket	1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A	1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A	1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A	1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A	
Possible areas of application <sup>(1)</sup>	230 V	230 V	230 V	400 V	230 V
Electric tools up to	2800 W	4200 W	4200 W	4500 W	2900 W
Gardening or construction equipment up to	1900 W	2800 W	2800 W	3100 W	2000 W
Compressors or pumps up to	1500 W	2200 W	2200 W	2100 W	1500 W
Inverter welding equipment up to	-	-	-	Ø 3.25 mm	

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding



Synchronous



IP 23



Low distortion device



Sound insulated



Diesel

The quality engines in the DIESEL Line ensure a reliable drive for the high-power synchronous generators. Noise and weather protection hoods ensure that the noise regulations according to the EU noise emission regulations are observed.

DIESELSILENT Line	
Electronic appliances	●
Electric tools	●●●●
Gardening or construction equipment	●●●●
Welding equipment	●●
Emergency power application	●



# DIESELSILENT Line

3.2 - 11.0 kVA



## Model series ESE 606, 706, 1006, 1204

- Insulation monitoring
- Voltmeter
- Large tank
- Crane loading lug
- Starter battery 12 V

## ESE 1204 DHS-GT ES ISO DI

- Wheelset as standard



► ESE 1006 DLS-GT ES ISO DI



► ESE 608 DYS-GT ES ISO DI

DIESELSILENT Line 5.7 - 11.0 kVA								
Model	ESE 706 DYS-GT ES <b>ISO</b> DI		ESE 1006 LS-GT ES <b>ISO</b> DI	ESE 1006 DLS-GT ES <b>ISO</b> DI		ESE 1204 DHS-GT ES <b>ISO</b> DI		
	3~	1~	1~	3~	1~	3~	1~	
Order No.	122 010		122 008		122 007		122 005	
Generator	Synchronous		Synchronous		Synchronous		Synchronous	
Max. output kVA/kW	6.9 / 5.5	4.6 / 4.1	8.3 / 7.5		9.8 / 7.9	6.3 / 5.7	15.8 / 12.6	10.4 / 9.4
Continuous output kVA/kW	5.7 / 4.6	3.3 / 3.0	7.1 / 6.4		8.5 / 6.8	5.0 / 4.5	11.0 / 8.8	6.5 / 5.8
Rated voltage	400 V 3~	230 V 1~	230 V 1~		400 V 3~	230 V 1~	400 V 3~	230 V 1~
Rated current	8.2 A 3~	14.3 A 1~	30.9 A 1~		12.3 A 3~	21.7 A 1~	15.9 A 3~	28.3 A 1~
Power factor cos φ	0.8	0.9	0.9		0.8	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23	
Engine type	YANMAR L 100 / 10 HP		LOMBARDINI 25LD330 / 16 HP		LOMBARDINI 25LD330 / 16 HP		HATZ 2G 40 / 20 HP	
Construction type	1-cylinder 4-stroke		2-cylinder 4-stroke		2-cylinder 4-stroke		2-cylinder 4-stroke	
Displacement	435 cm³		654 cm³		654 cm³		997 cm³	
Output at 3000 rpm	5.7 kW		11.2 kW		11.2 kW		14.7 kW	
Fuel / tank capacity (litre)	Diesel / 24		Diesel / 24		Diesel / 24		Diesel / 17	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.3 l / 18.5 h		2.0 l / 12 h		2.0 l / 12 h		2.3 l / 7.5 h	
Starting system	E-Start incl. battery		E-Start incl. battery		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA	93 dB(A)		97 dB(A)		97 dB(A)		97 dB(A)	
Sound pressure level LPA (7 m)	68 dB(A)		72 dB(A)		72 dB(A)		72 dB(A)	
Weight (kg)	186		204		207		275	
Dimensions L × W × H (mm)	945×595×825		945×595×825		945×595×825		1270×610×920	
Protective contact socket	1 × 230 V / 16 A 2 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A		1 × 230 V / 16 A 2 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A 1 × CEE 400 V / 16 A	
Possible areas of application <sup>(1)</sup>	400 V	230 V	230 V		400 V	230 V	400 V	230 V
Electric tools up to	4500 W	2900 W	6300 W		6700 W	4400 W	8700 W	5700 W
Gardening or construction equipment up to	3100 W	2000 W	4300 W		4500 W	3000 W	5800 W	3800 W
Compressors or pumps up to	2100 W	1500 W	3200 W		3400 W	2300 W	4400 W	2900 W
Inverter welding equipment up to	Ø 3.25 mm		-		Ø 4.0 mm		Ø 4.5 mm	
Available accessories	Order No.	Suitable for		Special equipment <sup>(2)</sup>	Order No.	Suitable for		
Wheelset	161 000	Model ESE 406		Cable remote control 20 m	162 024	Model series ESE 606, 608, 706, 1006, 1204		
Wheelset	161 031	Model series ESE 606, 706, 1006		Automatic emergency power supply with FI version	162 332	Model series 230V - ESE 606, 608, 1006		
Wheelset	161 035	Model series ESE 608						
Feed distributor E-NEV/1-16	162 300	Model ESE 406						
Feed distributor E-NEV/1-32	162 301	Model series 230V - ESE 606, 608, 1006						

Equipment features for all models

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

## Equipment features for all models

- Noise insulating housing for low operating noises
- Large tank for long running times
- Generator overload protection
- All generators fitted with a low distortion device for a clean voltage
- Compound controlled high-power 400V generators



# DIESEL Line

3.3 - 13.6 kVA



## Series with electrical starting ESE 604, ESE 906, ESE 1506

- Starter battery 12 V
- Large tank 24 litres



- ESE 604 DYS ES DI
- ESE 906 LS / DLS ES DI
- ESE 1506 LS / DLS ES DI

### DIESEL Line 3.3 - 5.6 kVA

Model	ESE 404 YS DI 1~	ESE 604 YS DI 1~	ESE 604 YS ES DI 1~	ESE 604 DYS DI 3~      1~	
Order No.	121 000	121 004	121 008	121 001	
Generator	Synchronous	Synchronous	Synchronous	Synchronous	
Max. output kVA/kW	3.9 / 3.5	5.9 / 5.3	5.9 / 5.3	6.9 / 5.5	4.5 / 4.1
Continuous output kVA/kW	3.3 / 3.0	4.8 / 4.4	4.8 / 4.4	5.6 / 4.5	3.3 / 3.0
Rated voltage	230 V 1~	230 V 1~	230 V 1~	400 V 3~	230 V 1~
Rated current	14.3 A 1~	20.9 A 1~	20.9 A 1~	8.2 A 3~	14.3 A 1~
Power factor cos $\varphi$	0.9	0.9	0.9	0.8	0.9
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	
Engine type	YANMAR L 70 / 6.7 HP	YANMAR L 100 / 10 HP	YANMAR L 100 / 10 HP	YANMAR L 100 / 10 HP	
Construction type	1-cylinder 4-stroke	1-cylinder 4-stroke	1-cylinder 4-stroke	1-cylinder 4-stroke	
Displacement	296 cm <sup>3</sup>	435 cm <sup>3</sup>	435 cm <sup>3</sup>	435 cm <sup>3</sup>	
Output at 3000 rpm	4.1 kW	5.7 kW	5.7 kW	5.7 kW	
Fuel / tank capacity (litre)	Diesel / 3.5	Diesel / 5.5	Diesel / 24	Diesel / 5.5	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.0 l / 3.5 h	1.4 l / 4 h	1.4 l / 17 h	1.4 l / 4 h	
Starting system	Recoil starter	Recoil starter	E-Start incl. battery	Recoil starter	
Sound power level LWA	101 dB(A) <sup>(2)</sup>	105 dB(A) <sup>(2)</sup>	105 dB(A) <sup>(2)</sup>	105 dB(A) <sup>(2)</sup>	
Sound pressure level LPA (7 m)	76 dB(A)	80 dB(A)	80 dB(A)	80 dB(A)	
Weight (kg)	54	94	114	96	
Dimensions L × W × H (mm)	760×538×560	760×538×560	840×641×696	760×538×560	
Protective contact socket	2 × 230 V / 16 A	1 × 230 V / 16 A 1 × CEE 230 V / 32 A	1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A	1 × 230 V / 16 A 1 × CEE 400 V / 16 A	
Possible areas of application <sup>(1)</sup>	230 V	230 V	230 V	400 V	230 V
Electric tools up to	2900 W	4300 W	4300 W	4400 W	2900 W
Gardening or construction equipment up to	2000 W	2900 W	2900 W	3000 W	2000 W
Compressors or pumps up to	1500 W	2200 W	2200 W	2300 W	1500 W
Inverter welding equipment up to	-	-	-	Ø 3.25 mm	

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Does not conform to EU Noise Guideline 2000/14/EU



The quality diesel engines in the Diesel line ensure a reliable drive for the high-power synchronous generators.

These models do not comply with EU Noise Directive 2000/14/EU

# DIESEL Line

3.3 - 13.6 kVA

**ENDRESS** 



► ESE 404 YS DI



► ESE 604 DYS

## DIESEL Line 5.6 - 13.6 kVA

Model	ESE 604 DYS ES DI		ESE 906 LS ES DI		ESE 906 DLS ES DI		ESE 1506 LS ES DI		ESE 1506 DLS ES DI	
	3~	1~	1~		3~	1~	1~		3~	1~
Order No.	<b>121 002</b>		<b>121 009</b>		<b>121 010</b>		<b>121 011</b>		<b>121 012</b>	
Generator	Synchronous		Synchronous		Synchronous		Synchronous		Synchronous	
Max. output kVA/kW	6.9 / 5.5	4.5 / 4.1	8.8 / 7.9		10.3 / 8.2	6.8 / 6.1	13.6 / 12.2		14.3 / 11.4	5.9 / 5.3
Continuous output kVA/kW	5.6 / 4.5	3.3 / 3.0	7.6 / 6.8		8.8 / 7.0	5.2 / 4.7	12.8 / 11.5		13.6 / 10.9	5.4 / 4.9
Rated voltage	400 V 3~	230 V 1~	230 V 1~		400 V 3~	230 V 1~	230 V 1~		400 V 3~	230 V 1~
Rated current	8.2 A 3~	14.3 A 1~	33.0 A 1~		12.7 A 3~	22.6 A 1~	52.2 A 1~		19.6 A 3~	21.7 A 1~
Power factor cos φ	0.8	0.9	0.9		0.8	0.9	0.9		0.8	0.9
Frequency / Protection Class	50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23		50 Hz / IP 23	
Engine type	YANMAR L 100 / 10 HP		LOMBARDINI 25LD330 / 16 HP		LOMBARDINI 25LD330 / 16 HP		LOMBARDINI 12LD477 / 23 HP		LOMBARDINI 12LD477 / 23 HP	
Construction type	1-cylinder 4-stroke		2-cylinder 4-stroke		2-cylinder 4-stroke		2-cylinder 4-stroke		2-cylinder 4-stroke	
Displacement	435 cm <sup>3</sup>		654 cm <sup>3</sup>		654 cm <sup>3</sup>		954 cm <sup>3</sup>		954 cm <sup>3</sup>	
Output at 3000 rpm	5.7 kW		11.2 kW		11.2 kW		13.8 kW		13.8 kW	
Fuel / tank capacity (litre)	Diesel / 24		Diesel / 24		Diesel / 24		Diesel / 24		Diesel / 24	
Consumption / running time at 75% load of about <sup>(1)</sup>	1.4 l / 17 h		2.0 l / 12 h		2.0 l / 12 h		2.8 l / 8.5 h		2.8 l / 8.5 h	
Starting system	E-Start incl. battery		E-Start incl. battery		E-Start incl. battery		E-Start incl. battery		E-Start incl. battery	
Sound power level LWA	105 dB(A) <sup>(2)</sup>		105 dB(A) <sup>(2)</sup>		105 dB(A) <sup>(2)</sup>		107 dB(A) <sup>(2)</sup>		107 dB(A) <sup>(2)</sup>	
Sound pressure level LPA (7 m)	80 dB(A)		80 dB(A)		80 dB(A)		82 dB(A)		82 dB(A)	
Weight (kg)	108		157		160		193		200	
Dimensions L × W × H (mm)	840×641×696		960×641×667		960×641×667		960×641×667		960×641×667	
Protective contact socket	1 × 230 V / 16 A 2 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A		1 × 230 V / 16 A 1 × CEE 230 V / 32 A		1 × 230 V / 16 A 1 × CEE 400 V / 16 A		1 × 230 V / 16 A 1 × CEE 230 V / 16 A 1 × CEE 230 V / 32 A		1 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A	
Possible areas of application <sup>(1)</sup>	400 V	230 V	230 V		400 V	230 V	230 V		400 V	230 V
Electric tools up to	4400 W	2900 W	6700 W		6900 W	4600 W	10700 W		10500 W	6500 W
Gardening or construction equipment up to	3000 W	2000 W	4500 W		4700 W	3100 W	7200 W		6200 W	4100 W
Compressors or pumps up to	2300 W	1500 W	3400 W		3500 W	2400 W	5400 W		5200 W	3100 W
Inverter welding equipment up to	Ø 3.25 mm		-		Ø 4.0 mm		-		Ø 6.0 mm	

Available accessories	Order No.	Suitable for
Wheelset	<b>161 000</b>	Models ESE 404, 604
Wheelset	<b>161 007</b>	Model series ESE 906, 1506
Feed distributor E-NEV / 1-32	<b>162 301</b>	Model series 230V - ESE 604, 906, 1506

Special equipment <sup>(3)</sup>	Order No.	Suitable for
Cable remote control 20 m	<b>162 024</b>	Series with electrical starting
Emergency Power Supply	<b>162 332</b>	Model series 230 V - with E-Start

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Does not conform to EU Noise Guideline 2000/14/EU

<sup>(3)</sup> Not upgradable

## Equipment features for all models

- Large side panels protect the engine and generator
- Generator overload protection
- All generators fitted with a low distortion device for a clean voltage
- Compound controlled high-power 400V generators

# Generator selection assistant



			ESE 2000i	ESE 3000i	ESE 306 HS-GT	ESE 606 HS-GT	ESE 606 DHS-GT	ESE 206 HS-GT	ESE 306 HS-GT	ESE 406 HS-GT	ESE 506 DHS-GT	ESE 606 HS-GT	ESE 606 DHS-GT	ESE 1006 DHS-GT	ESE 1206 HS-GT	ESE 1206 DHS-GT	ESE 1306 HS-GT	ESE 1306 DHS-GT	ESE 1506 DHS-GT
Generator line			SILENT		CLASSIC power line			Professional GT											
Continuous output		VA	1600	3000	2500	5800	7000	2500	2900	4200	5400	6000	7000	10000	10000	11800	9000	12000	13200
Generator		DUPLEX																	
		Synchronous	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Protection Class		IP 54	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		IP 23	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Voltage regulation		Electronic	•	•	AVR	AVR	AVR												
		Condenser						•	•	•		•			•				
		Compound									•		•	•		•			
Household	Voltage	Output (VA)																	
Hot plate	230 V	500-2000	<1300	•	<1900	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Baking oven	400 V	1000-2000					•						•	•		•	•	•	•
Fan heater	230 V	500-2000	<1300	•	<1900	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Refrigerator	230 V	100 - 150	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Freezer	230 V	100 - 400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air conditioning system	230 V	800-3000		<1900	<1900	<1600	•	<1500	<1800	•	<2100	•	•	•	•	•	•	•	•
Air conditioner	230 V	800-2000		<1900	<1000	•	•	<1800	<1800	•	•	•	•	•	•	•	•	•	•
Wet / dry vacuum cleaner	230 V	150-1500	<1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Computer, multimedia	230 V	100-1000	•	•	•	•	•												
Halogen lamp	230 V	200-1500	<1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Electric tools																			
Hammer drill / machine	230 V	400-1600	<1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hand circular saw	230 V	400-2000	<900	<1900	<1800	•	•	•	<1800	•	•	•	•	•	•	•	•	•	•
Angle grinder	230 V	400-2600	<1000	<2000	<1800	•	•	<2000	<1900	•	•	•	•	•	•	•	•	•	•
Jigsaw	230 V	250 - 700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Bench grinder	230 V	300 - 900	<600	<1300	•	•	•	•	<1200	•	•	•	•	•	•	•	•	•	•
Garden tools																			
Lawn mower	230 V	750-2000		<1300	<1200	•	•	<1600	<1200	•	•	•	•	•	•	•	•	•	•
Hedge trimmer	230 V	350-1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shredder	230 V	700-2500		<1100	<1200	•	<2200	<1600	<1000	•	<1900	•	•	•	•	•	•	•	•
	400 V	1500-4000					<3300				<3200		•	•		•		•	•
Electric devices																			
Building / circular saws	230 V	1500-3000		<1400	<1000		<1600	<1200	<1300	<1900	<1400	<2800	<1900	<2800	•	•	•	•	•
	400 V	2500-6000					<2500				<2500		<3200	<4600		<5400		<5400	<5400
Compressor	230 V	500-2500		<1100	<1000	<2500	<1600	<1200	<1000	<1900	<1400	<2800	<1900	•	•	•	•	•	•
	400 V	1500-3000					<2500				<2500		•	•		•		•	•
Water pump	230 V	400-2000	<800	<2000	<1000	•		<1500	<1900	•	•	•	•	•	•	•	•	•	•
	400 V	1000-5000					<2500				<3600		<4600	•		•		•	•
High pressure cleaner	230 V	1500-4000		<1400	<1000	<2500	<1600	<1200	<1300	<1900	<1400	<2800	<1900	<2800	•	<3200	•	<3200	<3200
	400 V	3000-6000					<2500				<2500		<3200	<4600		<5400		<5400	<5400
Welding equipment (electrode Ø in mm)																			
Inverter welding	230 V up to																4.5		
	400 V up to										2.5		3.25	4.5		5.0		5.0	5.0
Electrical welding	230 V up to					2.5				2.5					5.0		5.0		
	400 V up to										3.25	4.0	4.0	5.0		6.0		6.0	6.0
Plastic welding				•															
Electric motors																			
1.5 kW	230 V					•	•		•	•		•	•	•	•	•	•	•	•
1.5 kW	400 V						•				•		•	•		•		•	•
2.2 kW	230 V					•						•	•	•	•	•	•	•	•
2.2 kW	400 V						•				•		•	•	•	•	•	•	•
3.0 kW	400 V											•	•	•		•		•	•
4.0 kW	400 V												•	•		•		•	•
5.0 kW	400 V													•		•		•	•
6.0 kW	400 V														•			•	•
7.5 kW	400 V															•		•	•
Emergency power feed																			
	230 V		<1200	<2600	<1800	<4800		<2200	<2400	<3700		<5400			<9000	<3700	<3700	<3700	<3700
	400 V																		

(1) <1200 shows the appliance's maximum output, in VA, that can be handled by this generator.

(2) The data is based on average values and it is not binding, since individual cases may vary.

- Generator design The consumers can be driven by this generator
- The consumers can be driven by this generator



# Gas generator

Automatic, stationary emergency power supply



One further alternative for an automatic emergency power supply are generators that are fitted with a gas engine. These devices can optionally be run on natural gas (NG) or liquefied gas (LPG).

The ENDRESS gas power generators are already fitted with a built-in automatic emergency power supply which is controlled via the E-MCS 5.0 on-board computer.



Synchronous



IP 23



Low distortion device



Sound insulated



Gas

## Equipment features

- Automatic control panel E-MCS 5.0
- Switchover protection integrated in the housing (no separate installation required)
- FI protection switch
- Generator overload protection
- Lack of oil switch-off
- Starter battery 12 V / 40 Ah
- A standard connection for propane gas bottles or a house connection for a natural gas line

### E-MCS 5.0 control unit

For monitoring the engine and generator, frequencies, voltage and operating hours. Warning function and emergency stop in case of an engine malfunction.



### Integrated emergency power supply



## Gas generator

Model	ESE 808 GF	
Order No.	8080 103	
Generator	Synchronous / IP 23	
Continuous output running on LPG (kW)	8.0	
Continuous output running on NG (kW)	7.0	
Rated voltage	230 V 1~	
Rated current	35 A 1~	
Frequency	50 Hz	
Engine type	B & S VANGUARD	
Construction type	2-cylinder 4-stroke OHV	
Displacement	570 cm <sup>3</sup>	
Starting system	E-Start	
Sound power level LWA	90 dB(A)	
Sound pressure level LPA (7 m)	65 dB(A)	
Consumption of LPG	for a 50% load <sup>(1)</sup>	2.0 kg/h
	for a 100% load <sup>(1)</sup>	3.9 kg/h
Consumption of NG	for a 50% load <sup>(1)</sup>	2.5 m <sup>3</sup>
	for a 100% load <sup>(1)</sup>	3.25 m <sup>3</sup>
Weight (kg)	180	
Dimensions L × W × H (mm)	1200×630×700	

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding



► ESE 704 SHS-AC

Welding generators are an irreplaceable aid for undertaking welding or repair work on construction sites without a power connection.

They can also be used as a power generator when power is needed. ENDRESS welding generators, the multi-faceted source of energy.



Synchronous



IP 23



Welding control



AC / DC  
current welding



Petrol  
Diesel



► ESE 1006 SDHS-DC ES

WELDING Line				
Model <sup>(1)</sup>	ESE 404 SHS-AC	ESE 704 SHS-AC	ESE 804 SDHS-DC	ESE 1006 SDHS-DC ES
Order No.	141 008	141 007	141 001	141 018
Welding generator				
Welding power control range	30 - 180 A	60 - 200 A	40 - 220 A	30 - 300 A
No-load voltage	50 ÷ 62,5 V	45 ÷ 60,0 V	73.0 V	75.0 V
Min. / Max. welding voltage	22.4 / 27.2 V	22.4 / 28.0 V	21.5 / 28.8 V	21.2 / 32.0 V
Welding operation at 60% period of operation <sup>(4)</sup>	125 A	180 A	170 A	250 A
Welding regulation	Mechanical	Mechanical	Mechanical	Mechanical
Generator	Synchronous	Synchronous	Synchronous	Synchronous
Max. output kVA/kW	4.4 / 4.0	6.5 / 5.9	6.6 / 5.3    4.4 / 4.0	8.8 / 7.0    3.3 / 3.0
Continuous output kVA/kW	4.0 / 3.6	5.9 / 5.3	6.0 / 4.8    4.0 / 3.6	8.0 / 6.4    3.0 / 2.7
Rated voltage	230 V 1~	230 V 1~	400 V 3~    230 V 1~	400 V 3~    230 V 1~
Rated current	17.4 A 1~	25.7 A 1~	8.7 A 3~    17.4 A 1~	11.5 A 3~    13.0 A 1~
Power factor cos φ	0.9	0.9	0.8    0.9	0.8    0.9
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23
Engine type	HONDA GX270 / 8 HP	HONDA GX390 / 11 HP	HONDA GX390 / 11 HP	HONDA GX630 / 21 HP
Construction type	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	2-cylinder 4-stroke OHV
Displacement	270 cm <sup>3</sup>	389 cm <sup>3</sup>	389 cm <sup>3</sup>	688 cm <sup>3</sup>
Output at 3000 rpm	4.3 kW	6.4 kW	6.4 kW	10.5 kW
Fuel / tank capacity (litre)	Petrol / 6	Petrol / 6.5	Petrol / 6.5	Petrol / 16
Consumption / running time at 75% load of about <sup>(4)</sup>	1.6 l / 3.5 h	2.2 l / 3 h	2.1 l / 3 h	3.5 l / 4.5 h
Starting system	Recoil starter	Recoil starter	Recoil starter	E-Start incl. battery
Sound power level LWA	98 dB(A) <sup>(2)</sup>	99 dB(A) <sup>(2)</sup>	100 dB(A) <sup>(2)</sup>	98 dB(A) <sup>(2)</sup>
Sound pressure level LPA (7 m)	73 dB(A)	74 dB(A)	75 dB(A)	73 dB(A)
Weight (kg)	75	95	95	145
Dimensions L × W × H (mm)	890×490×570	890×490×570	890×490×570	945×570×640
Protective contact socket	2 × 230 V / 16 A	2 × 230 V / 16 A	1 × 230 V / 16 A 1 × CEE 400 V / 16 A	1 × CEE 230 V / 16 A 1 × CEE 400 V / 16 A
Maximum electrode Ø (mm)				
Rutile	4	4	5	6
Basic	-	-	4	5
Cellulose	-	-	5	6

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding.

<sup>(2)</sup> Does not conform to EU Noise Guideline 2000/14/EU.

<sup>(3)</sup> AC = alternating current welding for simple welding work  
DC = DC welding for professional welding operations

<sup>(4)</sup> The period of operation is determined within a cycle duration of 10 minutes (100%).

Therefore a period of operation of 60% means that the welding time is 6 minutes (60%) and the cooling down time is 4 minutes (40%)

Available accessories	Order No.	Suitable for
Wheelset	161 000	Model series ESE 404, 704, 804
Wheelset	161 015	Model ESE 1006 SDHS-DC ES
Welding area equipment	162 012	Model series ESE 404, 704
Welding area equipment	162 010	Model ESE 804 SDHS-AC
Welding area equipment	162 013	Model ESE 1006 SDHS-DC ES
Adapter CEE 230V / 16A to the shock-proof 230V / 16A	162 004	Model ESE 1006 SDHS-DC ES

## Equipment features

- Linear welding control (ESE 1006 model)
- Lack of oil switch-off
- Generator overload protection
- Carrying handle

# Original accessories



## Wheelset

Simple installation without drilling. For models with full tubular frames.

The design may vary according to the model.



## Crane loading device

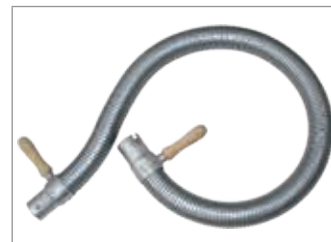
Makes implementation and loading easier — simple installation.

The design may vary according to the model.



## Adapters

90° angle, fits exhaust hose.



## Exhaust hose

Flexible metal hose (1.5 m) to conduct away the exhaust gases.

Not suitable for enclosed spaces.



## 3-way fuel tap

For direct connection to a fuelling system.



## Fuelling set

Included in the delivery: 20 l fuel can with a fuel drawing device.



## Welding current cable remote control

The welding output can be easily adjusted over the remote controller.

Cable length 15 m.



## Welding accessories scope of delivery:

Hand shield, wire brush, ground, electrode cable, chipping hammer, glove.



## Maintenance kit for petrol models

Included in the delivery: Air filter, spark plugs, oil filter, sealing ring.

Included equipment may vary according to engine type.



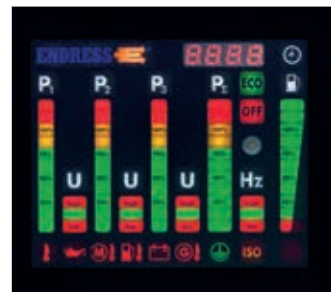
## Emergency Power Supply

When the power grid fails, the unit starts and takes over the emergency power supply.



## Power distributor

230 V or 400 V versions available.



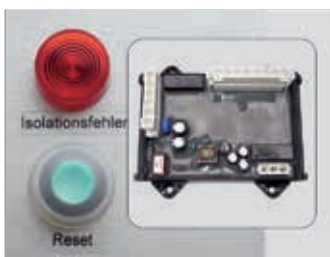
## Multi-function control display E-MCS 4.0

Displays the generator's most important current measurement data.



FI circuit breaker incl. earthing kit For protection against dangerous body currents. Earthing kit includes: Earthing spike, earthing cable.

(35 mm<sup>2</sup>, 3 m long)



## Insulation monitoring

The consumer circuit is automatically disconnected when the insulation resistance reaches a critical value.



## Wireless remote control

In response to a radio impulse the engine of the generator is reliably started or stopped.

Range under normal conditions 30-50 m



## Cable remote control

The START / STOP button reliably turns the unit on and off.

Cable length 20 or 50 m, depending on model



# PTO shaft generators

22.0 - 100.0 kVA



PTO shaft generators

Endress PTO shaft generators provide a cost-effective power supply.

They are simply mounted on existing agricultural tractors — without any investment in an additional drive motor.



Synchronous



IP 23  
IP 44



Compound  
AVR

## Protection Class IP 23

Model	EZG 24 / 2	EZG 33 / 4	EZG 46 / 4	EZG 66 / 4
Order No.	511 037	511 038	511 039	511 040
Generator	Synchronous	Synchronous	Synchronous	Synchronous
Continuous output kVA/kW	22.0 / 17.6	30.0 / 24.0	42.0 / 33.6	60.0 / 48.0
Voltage regulation	Compound	AVR	AVR	AVR
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Rated current	31.8 A 3~	43.3 A 3~	60.7 A 3~	86.7 A 3~
Frequency / Protection Class	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23	50 Hz / IP 23
Recommended tractor power output approx.	48 hp	61 hp	81 hp	118 hp
Speed of power take-off shaft	430 RPM	430 RPM	430 RPM	430 RPM
Weight (kg)	160	262	300	362
Dimensions L × W × H (mm)	930×800×900	930×800×900	1020×800×900	1020×800×900
Protective contact socket	1 × CEE 230 V / 16 A 1 × CEE 400 V / 32 A	1 × CEE 230 V / 32 A 1 × CEE 400 V / 63 A	1 × CEE 230 V / 32 A 1 × CEE 400 V / 63 A	1 × CEE 230 V / 16 A 1 × CEE 400 V / 125 A



For further  
information:

Click here to go to the  
**shaft generators** on our  
homepage

## Standard equipment EZG IP23

- Fusing over a circuit breaker
- Display of frequency, voltage, current
- Operating hours counter (EZG 66 / 4)
- 3-point suspension
- A robust steel frame with forklift pockets
- Development and manufacture in Germany

# PTO shaft generators

22.0 - 100.0 kVA

Fulfills the requirements  
of the Agricultural  
Employer's Liability Insurance  
Association

**ENDRESS** 



Display seen from the tractor



Switch box for the different versions  
Feed into the building IT / TN



IT-TN switch-over  
version including  
supply socket with  
a transfer switching  
equipment for  
supplying power  
to a building after  
a power failure  
according to VDE  
0100-551:2017-02

► EZG 100/4

Protection Class IP 44					
Model	EZG 25/2	EZG 40/4	EZG 60/4	EZG 80/4	EZG 100/4
Generator	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Continuous output kVA/kW	25 / 20	40 / 32	60 / 48	80 / 64	100 / 80
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Frequency / Protection Class	50 Hz / IP 44	50 Hz / IP 44	50 Hz / IP 44	50 Hz / IP 44	50 Hz / IP 44
Recommended tractor power output approx.	50 hp	80 hp	120 hp	160 hp	200 hp
Nominal speed of power take-off shaft	430 RPM	430 RPM	430 RPM	430 RPM	750 RPM
Drive shaft	1"3/8 Z6	1"3/8 Z6	1"3/8 Z6	1"3/8 Z6	1"3/4 Z20
Category 3-point suspension	2	2	2	3	3
Weight (kg)	220	266	392	500	560
Dimensions L × W × H (mm)	1130×740×942	1130×740×942	1130×740×942	1130×740×1007	1130×740×1007
Versions for field operations	EZG 25/2 TN-S	EZG 40/4 TN-S	EZG 60/4 TN-S	EZG 80/4 TN-S	EZG 100/4 TN-S
Order No.	<b>511 402</b>	<b>511 404</b>	<b>511 405</b>	<b>511 406</b>	<b>511 407</b>
Continuous output kVA/kW	25 / 20	40 / 32	60 / 48	80 / 64	100 / 80
Rated current	36.1 A 3~	57.7 A 3~	86.6 A 3~	115.5 A 3~	144.3 A 3~
Voltage regulation	Compound	AVR	AVR	AVR	AVR
Personal protection	FI protection switch	FI protection switch	FI protection switch	FI protection switch	FI protection switch
Socket combination	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A	3 × 230 V / 16 A 2 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A 1 × CEE 400 V / 125 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A 1 × CEE 400 V / 125 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A 1 × CEE 400 V / 125 A
Versions with the IT-TN switchover system	EZG 25/2 II/TN-S	EZG 40/4 II/TN-S	EZG 60/4 II/TN-S	EZG 80/4 II/TN-S	EZG 100/4 II/TN-S
Order No.	<b>511 502</b>	<b>511 504</b>	<b>511 505</b>	<b>511 506</b>	<b>511 507</b>
Continuous output kVA/kW	22 / 17.6	40 / 32	60 / 48	80 / 64	100 / 80
Rated current	31.7 A 3~	57.7 A 3~	86.6 A 3~	115.5 A 3~	144.3 A 3~
Voltage regulation	AVR	AVR	AVR	AVR	AVR
Personal protection	Insulation monitoring	Insulation monitoring	Insulation monitoring	Insulation monitoring	Insulation monitoring
Socket combination	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 125 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 125 A	3 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 125 A
Mains supply socket	1 × CEE 400 V / 32 A, 1 h	1 × CEE 400 V / 63 A, 1 h	1 × CEE 400 V / 125 A, 1 h	1 × CEE 400 V / 125 A, 1 h	1 × CEE 400 V / 125 A, 1 h
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Wheelset	<b>161 036</b>	<b>161 036</b>	<b>161 036</b>	<b>161 036</b>	<b>161 036</b>
Adapter for Category 2	–	–	–	<b>162 034</b>	<b>162 034</b>
Adapter for Category 3	<b>162 048</b>	<b>162 048</b>	<b>162 048</b>	–	–
Power distributor E-NEV/3-32	<b>162 304</b>	–	–	–	–
Power distributor E-NEV/3-63	<b>162 305</b>	<b>162 305</b>	–	–	–
Supply connector CEE 400 V / 32 A, 1 h	<b>E 135 846</b>	–	–	–	–
(for the option CEE 400 V / 63 A, 1 h)	–	<b>E 135 847</b>	–	–	–
IT-TN)	–	–	<b>E 135 848</b>	<b>E 135 848</b>	<b>E 135 848</b>

## Standard equipment: EZG IP 44

- Fuses over an all-phase line circuit breaker
- Operating hours counter
- Monitoring and display of frequency, voltage, current
- Automatic safety switch-off
- Large control lamps simplify adjustment of the power take-off shaft rotational speed (traffic lights function)
- A robust steel frame with forklift pockets
- A suitable supply connector 1h (for the IT-TN versions)
- Development and manufacture in Germany

## Switching option operation in the field / feed into a building (IT/TN network)

- 4-pin changeover switch for switching over between operation in the field and power feed operation (emergency power)
- Personal protection. Insulation monitoring during operation in the field - safe mobile operation
- Protection over the building installation in power feed operation (TN network)
- Mains supply socket CEE 5-pin, 1 h designed for the generator's maximum power output
- One suitable mating connector for a building mains feed CEE 400 V, 1 h included in the scope of delivery

# Control module E-MCS 6.0

Simple to operate, reliable in use



The digital control module E-MCS 6.0 is extremely versatile in use and very operator friendly at the same time due to the through menu navigation. With its large display screen and operating keys the main focus is on easy and clear operation.



## The E-MCS 6.0 includes the following functions

- Manual and automatic control of the power generator (start – stop)
- Monitoring of the oil pressure in the engine with automatic switching off if the oil pressure drops too low
- Monitoring of the battery charge and battery voltage
- Monitoring of the public power grid and switching in or switching off of the generator when the power grid fails
- Monitoring of the voltage / frequency of the generator
- Integrated operating hours counter
- Error memory for the last 100 errors that have occurred incl. actuation of the Emergency-Stop button
- Option to retrofit a remote monitoring system using E-RMA



## Connected power with E-RMA

ENDRESS Remote Monitoring Application - global remote maintenance. It does not matter where your generator is, with the two E-RMA SIM and E-RMA LAN options you always have access to the most important functions. Remote starting or stopping also belong to the options available such as remote monitoring and proactive messages which can, for example, warn against a critical condition being reached quite soon.

Your generator can be accessed via any internet connection on your PC, tablet or smartphone. Extensive information about this topic can be found on [Page. 9](#)

## Meaning of the abbreviations used in the tables

PRP - output during continuous operation such as 8528-1:2005.

Defined as the maximum power output that a generator can deliver under the agreed operating conditions during continuous operation, whilst it delivers a variable electrical load for an unlimited number of hours and when the maintenance intervals and procedures stipulated by the manufacturer are adhered to. The permissible average output over a 24 hour operating period must not exceed 70% of the basic output.

LTP - limited power during continuous operation such as 8528-1:2005. Defined as the maximum available power that a generator can provide under the agreed operating conditions for up to 500 operating hours per annum when the maintenance intervals and procedures stipulated by the manufacturer are adhered to. There is no overload capability.

## Declaration of the model designation

ESE	110	D	W	A	S	
						S = Acoustic enclosure
						A = Automatic
						M = Manual
						W= Water-cooled
						D = DEUTZ Dalian
						V = VOLVO
						Y = YANMAR
						P = PERKINS
						110 = Output class
						ESE = ENDRESS generators



# Power supply systems

10 - 705 kVA



► ESE 50 YW-B

Power supply systems

Made for tough construction site use, the diesel assemblies come in a sound-insulated design with all-around protection. They are fitted with premium generators that comply with VDE 0530 (Class H insulation) and are designed for the best performance under the toughest conditions.



Synchronous  
Class H



Electronic



Sound insulated



1500 RPM



Diesel

Power supply systems	
Building site generators	<a href="#">Page 50</a>
RENTAL Line RS	<a href="#">Page 52</a>
POWER Line	<a href="#">Page 57</a>
POWER Line Open Construction	<a href="#">Page 65</a>



# Building site generators

10 - 50 kVA



► ESE 20 YW-B

Modern water-cooled YANMAR diesel engines are used in the ESE 10 to 50 YW-B series. These are characterised by permanent reliability, high quality and cleanliness.



## Construction site generators 10 - 20 kVA

Model	ESE 10 YW-B	ESE 15 YW-B	ESE 20 YW-B <sup>(2)</sup>
Order No.	<b>310 014</b>	<b>310 011</b>	<b>310 012</b>
Max. output [LTP] kVA / kW 3~	9.3 / 7.4	14.3 / 11.4	19.3 / 15.4
Continuous power output [PRP] kVA / kW 3~	8.5 / 6.8	13.0 / 10.4	17.6 / 14.0
Generator model	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	12.2 A 3~ / 0.8	18.8 A 3~ / 0.8	25.4 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 3TNV76	YANMAR 3TNV88	YANMAR 4TNV88
Construction type	3-cylinder 4-stroke	3-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled
Displacement	1116 cm <sup>3</sup>	1642 cm <sup>3</sup>	2190 cm <sup>3</sup>
Engine output (PRP)	8.4 kW	12.7 kW	16.9 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical
Fuel / tank capacity (litre)	Diesel / 51	Diesel / 51	Diesel / 51
Consumption / running time at 75% approx. <sup>(1)</sup>	2.0 l / 25 h	2.8 l / 179 h	3.7 l / 13.7 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	93 dB(A)	93 dB(A)	93 dB(A)
Sound pressure level LPA (7 m)	68 dB(A)	68 dB(A)	68 dB(A)
Weight (kg)	418	480	560
Dimensions L × W × H (mm)	1646×885×1061	1646×885×1061	1646×885×1061
Available accessories	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request
Chassis ST rigid	<b>341 100 / FG 75</b>	<b>341 100 / FG 75</b>	<b>341 102 / FG 135</b>
Chassis HV height adjustable	<b>341 101 / FG 75</b>	<b>341 101 / FG 75</b>	<b>341 103 / FG 135</b>
Changeover contactors designed for LTP power output <sup>(3)</sup>	<b>343 012 / E-US 20</b>	<b>343 000 / E-US 32</b>	<b>343 000 / E-US 32</b>
Galvanized base frame	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>
Earthing kit	<b>162 008</b>	<b>162 008</b>	<b>162 008</b>
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.
Emergency Power Supply	<b>310 014A</b>	<b>310 011A</b>	<b>310 012A</b>
Universal current sensitive FI circuit breaker Type B	<b>342 012</b>	<b>342 012</b>	<b>342 012</b>
Insulation monitoring	<b>163 076</b>	<b>163 076</b>	<b>163 076</b>
Special colour	on request	on request	on request
Large tank 48h at a 75% load	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>
Wireless / cable remote control	on request	on request	on request

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> All generators that are marked with  fulfil emissions Stage 3A

<sup>(3)</sup> Only for the version of the automatic emergency power supply <sup>(4)</sup> Not upgradable <sup>(5)</sup> Not available

# Building site generators

10 - 50 kVA

**ENDRESS** 



► ESE 50 YW-B

3A

A description of the instrument panel and Socket combination can be found on [page 69](#)



3A

## Construction site generators 30 - 50 kVA

Model	ESE 35 YW-B <sup>(2)</sup>	ESE 45 YW-B	ESE 50 YW-B <sup>(2)</sup>
Order No.	310 027	310 028	310 029
Max. output [LTP] kVA / kW 3~	32.5 / 26.0	46.0 / 36.8	46.0 / 36.8
Continuous power output [PRP] kVA / kW 3~	30.5 / 24.4	42.0 / 33.6	44.0 / 35.2
Generator model	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	44.0 A 3~ / 0.8	60.6 A 3~ / 0.8	63.5 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 4TNV98	YANMAR 4TNV98T	YANMAR 4TNV98T
Construction type	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled
Displacement	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>
Engine output (PRP)	31.2 kW	38.3 kW	40.2 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Mechanical	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 100	Diesel / 100	Diesel / 100
Consumption / running time at 75% approx. <sup>(1)</sup>	5.8 l / 17.2 h	7.9 l / 12.7 h	8.3 l / 12.0 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	95 dB(A)	95 dB(A)	95 dB(A)
Sound pressure level LPA (7 m)	70 dB(A)	70 dB(A)	70 dB(A)
Weight (kg)	808	874	917
Dimensions L × W × H (mm)	2005×948×1308	2005×948×1308	2005×948×1308
Available accessories	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request
Chassis ST rigid	341 102 / FG 135	341 102 / FG 135	341 102 / FG 135
Chassis HV height adjustable	341 103 / FG 135	341 103 / FG 135	341 103 / FG 135
Changeover contactors designed for LTP power output <sup>(3)</sup>	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>
Galvanized base frame	342 111	342 111	342 111
Earthing kit	162 008	162 008	162 008
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.
Emergency Power Supply	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>
Universal current sensitive FI circuit breaker Type B	342 013	342 013	342 013
Insulation monitoring	163 076	163 076	163 076
CEE 400V / 16A socket <sup>(6)</sup>	342 710	342 710	342 710
Special colour	on request	on request	on request
Large tank 48h at a 75% load	342 307	342 307	342 307
Wireless / cable remote control	on request	on request	on request
Electronic engine control	342 708	-	-

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> All generators that are marked with  fulfil emissions Stage 3A

<sup>(3)</sup> Only for automatic emergency power supply version <sup>(4)</sup> Not upgradable <sup>(5)</sup> Not available <sup>(6)</sup> 2 x CEE 230V / 16A sockets are not needed



Option: Large tank for a running time of 48 h

## Equipment features

- Clean and quietly running TNV engines
- Good starting characteristics, also at low temperatures
- Electronically regulated generators
- A brush-less design with a high voltage constancy
- Lockable instrument panel (models ESE 35-50 YW-B)
- Internal tank
- Large 100 litre steel tank for longer running times (ESE 35-50 YW-B model)



Synchronous  
Class H



Electronic



Sound insulated



1500 RPM



YANMAR  
John Deere



For further  
information:

Click here to go to the  
RS rental line flyer on  
our homepage

The ENDRESS Rental Line RS generators combine all of the most important features concerning handling, simplified maintenance, a robust construction and a long running time.

Thought-through and inspired by exchanges made with partners of many years' standing, it is the innovative and economic solution which supports your success and keeps your projects optimally supplied.

# RENTAL Line RS

20- 225 kVA



A description of the instrument panel and socket combination can be found on [pages 69](#)



For further information:



Click here to go to our [RS rental line video](#) on YouTube

► ESE 20 YW/RS

3A

3A

3A

RENTAL Line					
Model	ESE 20 YW/RS <sup>(4)</sup>	ESE 30 YW/RS	ESE 35 YW/RS <sup>(4)</sup>	ESE 45 YW/RS	ESE 50 YW/RS <sup>(4)</sup>
Order No.	333 271	333 272	333 273	333 274	333 275
Max. output [LTP] kVA/kW 3~	19.6 / 15.7	32.5 / 26.0	32.5 / 26.0	46.0 / 36.8	46.0 / 36.8
Continuous power output [PRP] kVA/kW 3~	17.9 / 14.3	30.5 / 24.4	30.5 / 24.4	42.0 / 33.6	42.0 / 33.6
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400 V 3 ~ / 230 V 1 ~	400 V 3 ~ / 230 V 1 ~	400 V 3 ~ / 230 V 1 ~	400 V 3 ~ / 230 V 1 ~	400 V 3 ~ / 230 V 1 ~
Nominal current / Cos φ	25.8 A 3~ / 0.8	44.0 A 3~ / 0.8	44.0 A 3~ / 0.8	60.6 A 3~ / 0.8	60.6 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 4TNV88	YANMAR 4TNV98	YANMAR 4TNV98	YANMAR 4TNV98T	YANMAR 4TNV98T
Construction type	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	2190 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>
Engine output (PRP)	16.4 kW	30.7 kW	30.7 kW	37.9 kW	37.9 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Mechanical	1500 / Electronic	1500 / Mechanical	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 200	Diesel / 200	Diesel / 200	Diesel / 200	Diesel / 200
Consumption / running time at 75% load of about <sup>(5)</sup>	3.8 l / 52 h	5.8 l / 34 h	5.8 l / 34 h	8.2 l / 24 h	8.3 l / 24 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	92 dB(A)	93 dB(A)	93 dB(A)	91 dB(A)	89 dB(A)
Sound pressure level LPA (7 m)	67 dB(A)	68 dB(A)	68 dB(A)	66 dB(A)	64 dB(A)
Weight (kg)	949	1054	1074	1129	1146
Dimensions L × W × H (mm)	2300×950×1500	2300×950×1500	2300×950×1500	2300×950×1500	2300×950×1500
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Chassis ST rigid <sup>(1)</sup>	341 127 / FG 20-50 ST	341 127 / FG 20-50 ST	341 127 / FG 20-50 ST	341 127 / FG 20-50 ST	341 127 / FG 20-50 ST
Chassis HV height adjustable <sup>(1)</sup>	341 125 / FG 20-50 HV	341 125 / FG 20-50 HV	341 125 / FG 20-50 HV	341 125 / FG 20-50 HV	341 125 / FG 20-50 HV
Float switch (start/stop) 10m	342 033	342 033	342 033	342 033	342 033
Changeover contactors	343 016R / E-US 32	343 017R / E-US 63	343 017R / E-US 63	343 018R / E-US 80	343 018R / E-US 80
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Maintenance package 500 h <sup>(2)</sup>	164 023	164 024	164 026	164 025	164 027
Special equipment <sup>(3)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
FI - sensitive to universal currents - RCD [Type B]	342 035	342 036	342 036	342 036	342 036
Version B as per DGUV information 203-032	342 711	–	342 711	–	342 711
Supplying power to a building IT/TN	342 232	–	342 232	–	342 232
Insulation monitoring	163 076	163 076	163 076	163 076	163 076
Potential-free contact	342 030	342 030	342 030	342 030	342 030
External battery charging <sup>(7)</sup>	342 031	342 031	342 031	342 031	342 031
Twilight switch	342 032	342 032	342 032	342 032	342 032
Soot particulate filter	342 400	–	342 400	–	342 400
ENDRESS Hybrid System EHS 4/11-R	342 231	342 231	342 231	342 231	342 231
Remote display <sup>(6)</sup>	E135 961	E135 961	E135 961	E135 961	E135 961

(1) Dispensing with the base frame

(2) Maintenance package consisting of oil filter, fuel filter, air filter

(3) Not upgradable

(4) All generators that are marked with **3A** fulfil emissions Stage 3A

(5) This data is based on average values since individual cases can vary,

and it is not binding

(6) Control and monitoring unit consisting of a second display, 2 communications modules and a 10 m data cable

(7) The CEE 230V 16A socket is not needed



# RENTAL Line RS

20- 225 kVA



Chassis optionally available



As from Q3 2019

Converted to FPT engines - for more information:

Click here to go to the FPT press release on our homepage

► ESE 180 JW/RS

3A

3A

3A

3A

3A

3A

## RENTAL Line

Model	ESE 67 JW/RS <sup>(3)</sup>	ESE 95 JW/RS <sup>(3)</sup>	ESE 115 JW/RS <sup>(3)</sup>	ESE 145 JW/RS <sup>(3)</sup>	ESE 180 JW/RS <sup>(3)</sup>	ESE 225 JW/RS <sup>(3)</sup>
Order No.	333 276	333 277	333 278	333 279	333 280	333 288
Max. output [LTP] kVA/kW 3~	66 / 52.8	94 / 75.2	116 / 92.8	140 / 112	176 / 140.8	220 / 176
Continuous power output [PRP] kVA/kW 3~	60 / 48	85 / 68	105 / 84	128 / 102.4	160 / 128	200 / 160
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H	Class H
Rated voltage	400 V 3~ / 230 V 1~	400 V 3~ / 230 V 1~	400 V 3~ / 230 V 1~	400 V 3~ / 230 V 1~	400 V 3~ / 230 V 1~	400 V 3~ / 230 V 1~
Nominal current / Cos φ	86.6 A 3~ / 0.8	122.7 A 3~ / 0.8	151.6 A 3~ / 0.8	184.8 A 3~ / 0.8	230.9 A 3~ / 0.8	288.7 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	JohnDeere 4045HFG81	JohnDeere 4045HFG82	JohnDeere 4045HFG82	JohnDeere 4045HFG82	JohnDeere 6068HFG82	JohnDeere 6068HFG82
Construction type	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	4500 cm <sup>3</sup>	4500 cm <sup>3</sup>	4500 cm <sup>3</sup>	4500 cm <sup>3</sup>	6800 cm <sup>3</sup>	6800 cm <sup>3</sup>
Engine output (PRP)	56 kW	76 kW	94 kW	112 kW	139 kW	184 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 400	Diesel / 400	Diesel / 650	Diesel / 650	Diesel / 960	Diesel / 960
Consumption / running time at 75% load of about <sup>(5)</sup>	11.9 l / 33.6 h	16.1 l / 24.8 h	19.6 l / 33.2 h	23.4 l / 27.8 h	27.8 l / 34.5 h	37.6 l / 25.5 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	91 dB(A)	94 dB(A)	93 dB(A)	93 dB(A)	96 dB(A)	96 dB(A)
Sound pressure level LPA (7 m)	66 dB(A)	69 dB(A)	68 dB(A)	68 dB(A)	71 dB(A)	71 dB(A)
Weight (kg)	1796	1876	2128	2188	2588	2664
Dimensions L × W × H (mm)	2900×1090×1925	2900×1090×1925	3370×1090×1995	3370×1090×1995	3560×1190×2180	3560×1190×2180
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Chassis ST rigid	341 131 / FG 2502 ST	341 133 / FG 3002 ST	341 135 / FG 3502 ST	341 135 / FG 3502 ST <sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>
Chassis HV height adjustable	341 132 / FG 2502 HV	341 134 / FG 3002 HV	341 136 / FG 3502 HV	341 136 / FG 3502 HV	341 137 / FG 6502 HV	341 137 / FG 6502 HV
Float switch (start/stop) 10m	342 033	342 033	342 033	342 033	342 033	342 033
Changeover contactors	343 019R / E-US 100	343 020R / E-US 125	343 021R / E-US 160	343 022R / E-US 200	343 023R / E-US 250	343 025R / E-US 400
E-RMA SIM	342 220	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222	342 222
Maintenance package 500 h <sup>(1)</sup>	on request	on request	on request	on request	on request	on request
Special equipment <sup>(2)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
FI - sensitive to universal currents - RCD [Type B]	342 037	342 037	342 037	342 037	342 037	342 037
Version B as per DGVV information 203-032	342 712	342 712	342 712	342 713	342 713	342 713
Supplying power to a building IT/TN	342 234	342 234	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>
Insulation monitoring	163 076	163 076	163 076	163 076	163 076	163 076
Potential-free contact	342 030	342 030	342 030	342 030	342 030	342 030
External battery charging	342 031	342 031	342 031	342 031	342 031	342 031
Twilight switch	342 032	342 032	342 032	342 032	342 032	342 032
Soot particulate filter	342 401	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>
Remote display <sup>(6)</sup>	E135 961	E135 961	E135 961	E135 961	E135 961	E135 961
Powerlock plug connector	342 034	342 034	342 034	342 034	342 034	342 034
125A socket	342 709	342 709	342 709	342 709	342 709	342 709

<sup>(1)</sup> Maintenance package consisting of oil filter, fuel filter, air filter <sup>(2)</sup> Not upgradable <sup>(3)</sup> All generators marked with <sup>(3A)</sup> fulfil emission Stage 3A <sup>(4)</sup> Not available <sup>(5)</sup> This data is based on average values as individual cases can vary and therefore they are not binding <sup>(6)</sup> Control and monitoring unit consists of a second display, 2 communication modules and 10 m data cable <sup>(7)</sup> Not as per StawaR

## Equipment features for all models

- Sound-insulated hood – extra quiet – only LWA 89 db (A) (dependent on the model)
- Engine according to Emissions Stage 3A
- Manual/Automatic instrument panel in IP 54
- Base frame with continuous fork-lift plates and ram protection
- Galvanised hood for increased corrosion protection
- Large steel tank for running times of 24 - 50 hours (dependent on the model)
- Outlet for external refuelling includes a three-way fuel tap

- Liquid collecting tray <sup>(7)</sup> to protect the environment
- Problem-free use, also in winter through use of a standard engine and coolant prewarming
- Prepared for access to the aggregate via smartphone, PC & tablet
- The main battery switch
- Manual oil scavenger pump
- Remote start connection
- Diesel filter with water trap
- Socket combination 1 × CEE 400V / 63A, 1 × CEE 400V / 32A, 1 × CEE 400V / 16A, 1 × CEE 230V / 16A, 1 × 230V / 16 A

# Energy storage system

12 -24 kVA



The network-independent solution with the new energy storage system - increased efficiency, reduced noise emissions and optimised generator utilisation for use on construction sites, bridge renovations or tunnel construction sites are just some of the results achieved with the new energy storage system.



Energy storage system



**For further information:**

Click here to go to the **energy storage system** on our homepage

The energy storage system absorbs the load peaks and allows generators to operate in the optimum power range. The diesel generators can also be designed to be smaller and more cost-efficient. If a load decrease returns, the generator will be stopped automatically and the energy storage system will then silently feed the consumers that have to be supplied from its batteries. Consumers with a lower load decrease will be supplied solely by the energy storage system. If consumers with a high load decrease, e.g. a crane system, are being used, then the energy storage system will restart the generator automatically and also synchronise it to the grid automatically. The two devices will now work together and their power will be added together.

# Energy storage system

12 -24 kVA



► EES D 12/12

## ENDRESS energy storage system

Model	EES D 12/12	EES D 20/20	EES D 24/24
Order No.	610 014	610 015	610 016
<b>Technical specifications</b>			
<b>Power section</b>			
Continuous output at 25°C kVA/kW	10.5	15	21
Power <sup>(1)</sup> at 25°C kVA/kW	12	18	24
Peak power <sup>(2)</sup> at 25°C kVA/kW	31.5	45	63
Rated voltage	400 / 230 V	400 / 230 V	400 / 230 V
Nominal output current in independent operation	17 A	26 A	35 A
Nominal output current in combined operation	32 A	63 A	63 A
Protection Class	IP 54	IP 54	IP 54
Protective measures	RCD (residual-current-operated protective device)	RCD (residual-current-operated protective device)	RCD (residual-current-operated protective device)
Design according to DGUV 203-032	B (Protective separation with residual-current operated protective device)	B (Protective separation with residual-current operated protective device)	B (Protective separation with residual-current operated protective device)
<b>Battery system</b>			
Rated capacity	12 kWh	20 kWh	24 kWh
Rated nominal capacity (optionally available)	16, 20, 24 kWh	24 kWh	–
Battery cycles	1400	1400	1400
Operating temperature range	-20°C – 55°C	-20°C – 55°C	-20°C – 55°C
Charging time, approx.	2.5 h	2.5 h	2.5 h
<b>Assembly</b>			
Weight approx.	800 kg	1300 kg	1500 kg
Dimensions L x W x H	1200 x 800 x 1700 mm	1200 x 800 x 1700 mm	1200 x 800 x 1700 mm
Input sockets	1x CEE 400 V / 32A 1x 230 V / 16A device plug	1x CEE 400 V / 63A 1x 230 V / 16A device plug	1x CEE 400 V / 63A 1x 230 V / 16A device plug
sockets	1x 230 V / 16 A <sup>(3)</sup> 1x CEE 400 V / 16 A 1x CEE 400 V / 32 A	1x 230 V / 16 A <sup>(3)</sup> 1x CEE 400 V / 16 A 1x CEE 400 V / 32 A 1x CEE 400 V / 63 A	1x 230 V / 16 A <sup>(3)</sup> 1x CEE 400 V / 16 A 1x CEE 400 V / 32 A 1x CEE 400 V / 63 A
Monitoring LCD display	AC voltage, AC current for each phase, battery capacity, discharging current, charging current	AC voltage, AC current for each phase, battery capacity, discharging current, charging current	AC voltage, AC current for each phase, battery capacity, discharging current, charging current
Remote start input	2 conductors	2 conductors	2 conductors

### Options

- Remote monitoring
- Timer function for energy saving system
- Timer function for the remote starting of a generator
- Socket with load shedding of secondary consumers

(1) approx. 30 min.

(2) approx. 3 sec.

(3) Socket also used for maintaining the battery charge

- Version C according to DGUV Information 203-032 as an IT system with residual current protection device (includes an earthing stake) and insulation monitoring with status signalling
- Version C according to DGUV Information 203-032 as an IT system with residual current protection device (includes an earthing stake)
- Insulation monitoring with IT system switching off or Version B as per DGUV Information 203-032



#### Ideal for:

Tunnel and high construction sites, events, power supply for residential containers, tools and electrical equipment.



#### Recharging time:

approx. 2.5 h (recharging time varies as it depends on the recharging method)



#### Ecological:

No CO<sub>2</sub> emissions, reduced noise emissions



#### Economical:

Lower generator running times for less fuel consumption, an optimised generator utilisation rate for lower signs of wear



#### Safety:

Overload, over-temperature and short-circuit protection, deep-discharge protection

### ► ESE 95 PW / MS

Galvanised base frame is not included in the package



MS: Manual instrument panel, liquid collecting tray <sup>(7)</sup>, crane lifting eyes

AS: Automatic instrument panel, coolant preheating system, liquid collecting tray <sup>(7)</sup>, crane lifting eyes

3A

3A

### POWER Line MS / AS 15 - 45 kVA

Modell - manual version	ESE 15 YW / MS	ESE 20 YW / MS <sup>(2)</sup>	ESE 35 YW / MS <sup>(2)</sup>	ESE 45 YW / MS
Order No.	333 221	335 222	335 248	335 228
Modell - automatic version	ESE 15 YW / AS	ESE 20 YW / AS <sup>(2)</sup>	ESE 35 YW / AS <sup>(2)</sup>	ESE 45 YW / AS
Order No.	331 221	331 222	329 248	329 228
Max. output [LTP] kVA / kW	14.5 / 11.6	19.6 / 15.6	32.5 / 26.0	46.0 / 36.8
Continuous power output [PRP] kVA / kW	13.2 / 10.5	17.9 / 14.3	30.5 / 24.4	42.0 / 33.6
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	19.0 A 3~ / 0.8	25.8 A 3~ / 0.8	44.0 A 3~ / 0.8	60.6 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 3TNV88	YANMAR 4TNV88	YANMAR 4TNV98	YANMAR 4TNV98T
Construction type	3-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	1642 cm <sup>3</sup>	2190 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>
Engine output (PRP)	12.7 kW	16.9 kW	31.2 kW	38.3 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical
Fuel / tank capacity (litre)	Diesel / 68	Diesel / 68	Diesel / 100	Diesel / 100
Consumption / running time at 75% load of about <sup>(3)</sup>	2.85 l / 23.8 h	3.7 l / 18.3 h	5.8 l / 17.2 h	7.9 l / 12.7 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	94 dB(A)	92 dB(A)	95 dB(A)	95 dB(A)
Sound pressure level LPA (7 m)	69 dB(A)	67 dB(A)	70 dB(A)	70 dB(A)
Weight (kg)	580	670	808	874
Dimensions L × W × H (mm)	1805×884×1261	1805×884×1261	2005×948×1308	2005×948×1308
Available accessories	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request
Chassis ST rigid	341 102 / FG 135	341 102 / FG 135	341 102 / FG 135	341 102 / FG 135
Chassis HV height adjustable	341 103 / FG 135	341 103 / FG 135	341 103 / FG 135	341 103 / FG 135
Changeover contactors designed for LTP power output <sup>(5)</sup>	343 016 / E-US 32	343 016 / E-US 32	343 017 / E-US 63	343 018 / E-US 80
Galvanized base frame	342 110	342 110	342 111	342 111
E-RMA SIM	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 1 <sup>(6)</sup>	342 140	342 140	342 140	342 140
Automatic fuel pump <sup>(3)</sup>	342 006	342 006	342 006	342 006
Insulation monitoring	163 076	163 076	163 076	163 076
Universal current sensitive FI circuit breaker Type B	342 035	342 035	342 036	342 036
Large tank 48h at a 75% load	343 306 / 210 L	343 306 / 210 L	343 307 / 450 L	343 307 / 450 L
Socket combination	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>
Soot particulate filter	<sup>(5)</sup>	342 400	–	–
Large tank 100 litres	343 031	343 031	Standard	Standard
Terminal strip	343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> All generators that are marked with **3A** fulfil emissions Stage 3A

<sup>(3)</sup> AS series only <sup>(4)</sup> Not upgradable <sup>(5)</sup> Not available

<sup>(6)</sup> Description of Optional Package Rental 1 on **page 70**

<sup>(7)</sup> Not as per Stawar



# POWER Line

15 - 705 kVA



A description of the instrument panel can be found on **page 69**



Prepared for the remote monitoring system E-RMA



## POWER Line MS / AS 50 – 95 kVA

Modell - manual version	ESE 50 YW / MS <sup>(2)</sup>	ESE 65 PW / MS	ESE 67 PW / MS <sup>(2)</sup>	ESE 80 PW / MS	ESE 95 PW / MS <sup>(2)</sup>
Order No.	335 249	333 250	333 251	333 252	333 253
Modell - automatic version	ESE 50 YW / AS <sup>(2)</sup>	ESE 65 PW / AS	ESE 67 PW / AS <sup>(2)</sup>	ESE 80 PW / AS	ESE 95 PW / AS <sup>(2)</sup>
Order No.	329 249	331 250	331 251	331 252	331 253
Max. output [LTP] kVA / kW	46.0 / 36.8	66.7 / 53.4	66.6 / 53.3	83.0 / 66.0	92.4 / 73.9
Continuous power output [PRP] kVA / kW	44.0 / 35.2	60.5 / 48.4	60.1 / 48.8	78.0 / 62.4	83.7 / 67.0
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	63.5 A 3~ / 0.8	87.6 A 3~ / 0.8	86.7 A 3~ / 0.8	112.6 A 3~ / 0.8	120.8 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 4TNV98T	PERKINS 1103A-33TG2	PERKINS 1104D-44TG3	PERKINS 1104A-44TG2	PERKINS 1104D-E44TAG1
Construction type	4-cylinder 4-stroke	3-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	3319 cm <sup>3</sup>	3300 cm <sup>3</sup>	4400 cm <sup>3</sup>	4400 cm <sup>3</sup>	4400 cm <sup>3</sup>
Engine output (PRP)	40.2 kW	55.0 kW	56.6 kW	73.4 kW	76.6 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 100	Diesel / 209	Diesel / 209	Diesel / 209	Diesel / 209
Consumption / running time at 75% load of about <sup>(1)</sup>	8.3 l / 12 h	10.4 l / 20 h	12.0 l / 17 h	13.4 l / 15.5 h	16.9 l / 12.4 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Sound power level LWA	95 dB(A)	96 dB(A)	92 dB(A)	96 dB(A)	96 dB(A)
Sound pressure level LPA (7 m)	70 dB(A)	71 dB(A)	67 dB(A)	71 dB(A)	71 dB(A)
Weight (kg)	874	1085	1150	1144	1490
Dimensions L × W × H (mm)	2005×948×1308	2294×1007×1465	2294×1007×1465	2294×1107×1465	2414×1087×1683
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Chassis ST rigid	341 102 / FG 135	341 106 / FG 180	341 106 / FG 180	341 106 / FG 180	341 110 / FG 2500
Chassis HV height adjustable	341 103 / FG 135	341 107 / FG 180	341 107 / FG 180	341 107 / FG 180	341 111 / FG 2500
Changeover contactors designed for LTP power output <sup>(3)</sup>	343 018 / E-US 80	343 019 / E-US 100	343 019 / E-US 100	343 020 / E-US 125	343 020 / E-US 125
Galvanized base frame	342 111	342 112	342 112	342 112	342 113
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 1 <sup>(6)</sup>	342 140	342 140	342 140	342 140	342 140
Automatic fuel pump <sup>(3)</sup>	342 006	342 006	342 006	342 006	342 006
Insulation monitoring	163 076	163 076	163 076	on request	on request
Universal current sensitive FI circuit breaker Type B	342 036	342 037	342 037	342 037	342 037
Large tank 48h at a 75% load	343 307 / 450 L	343 308 / 730 L	343 308 / 730 L	343 308 / 730 L	343 309 / 890 L
Socket combination	<sup>(5)</sup>	342 054	342 054	342 054	342 054
Soot particulate filter	342 400	–	342 401	–	342 402
Large tank 100 litres	Standard	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>
Terminal strip	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore it is not binding

<sup>(2)</sup> All generators that are marked with **3A** fulfil emissions Stage 3A

<sup>(3)</sup> Only for model series AS

<sup>(4)</sup> Not upgradable

<sup>(5)</sup> Not available

<sup>(6)</sup> Description of Optional Package Rental 1 on **page 70**

<sup>(7)</sup> Not as per StawaR

- Modern, water-cooled industrial engines from YANMAR and PERKINS
- A galvanised and powder-coated noise absorption hood
- Internal, lockable tank
- Self-explanatory and simple to operate digital control system
- Prepared for the remote monitoring system E-RMA
- Brush-less, electronically controlled generators
- Coolant pre-warming standard in the model series AS
- Liquid collecting tray <sup>(7)</sup> to protect the environment
- Large 100 litre steel tank for longer running times (ESE 20-50 model)



MS: Manual instrument panel, liquid collecting tray <sup>(6)</sup>, crane lifting eyes

AS: Automatic instrument panel, coolant preheating system, liquid collecting tray <sup>(6)</sup>, crane lifting eyes

► ESE 220 VW / AS

3A

3A

3A

### POWER Line MS / AS 110 – 165 kVA

Modell - manual version	ESE 110 PW / MS	ESE 115 PW / MS <sup>(2)</sup>	ESE 145 VW / MS <sup>(2)</sup>	ESE 150 VW / MS	ESE 165 VW / MS <sup>(2)</sup>
Order No.	333 254	333 255	333 256	333 257	333 258
Modell - automatic version	ESE 110 PW / AS	ESE 115 PW / AS <sup>(2)</sup>	ESE 145 VW / AS <sup>(2)</sup>	ESE 150 VW / AS	ESE 165 VW / AS <sup>(2)</sup>
Order No.	331 254	331 255	331 256	331 257	331 258
Max. output [LTP] kVA / kW	114.7 / 91.7	116.0 / 92.8	143.0 / 114.4	145.1 / 116.1	164.0 / 131.2
Continuous power output [PRP] kVA / kW	103.8 / 83.0	106.2 / 84.9	132.1 / 105.7	130.1 / 104.1	153.8 / 123.0
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	149.9 A 3~ / 0.8	153.2 A 3~ / 0.8	190.7 A 3~ / 0.8	187.0 A 3~ / 0.8	222.0 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	PERKINS 1104C-44TAG2	PERKINS 1104D-E44TAG2	VOLVO TAD750GE	VOLVO TAD532GE	VOLVO TAD751GE
Construction type	4-cylinder 4-stroke	4-cylinder 4-stroke	6-cylinder 4-stroke	4-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	4410 cm <sup>3</sup>	4400 cm <sup>3</sup>	7150 cm <sup>3</sup>	4760 cm <sup>3</sup>	7150 cm <sup>3</sup>
Engine output (PRP)	93.6 kW	95.5 kW	119.0 kW	116.0 kW	137.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 209	Diesel / 209	Diesel / 350	Diesel / 350	Diesel / 350
Consumption / running time at 75% load of about <sup>(1)</sup>	18.0 l / 11.6 h	17.0 l / 12.3 h	25.5 l / 13.7 h	21.9 l / 16 h	29.1 l / 12 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 24 V	E-Start / 12 V	E-Start / 24 V
Sound power level LWA	96 dB(A)	96 dB(A)	97 dB(A)	97 dB(A)	97 dB(A)
Sound pressure level LPA (7 m)	71 dB(A)	71 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)
Weight (kg)	1400	1500	2224	1811	2224
Dimensions L × W × H (mm)	2414×1087×1529	2414×1087×1683	3414×1338×1978	3000×1150×1720	3414×1338×1978
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Chassis ST rigid	341 110 / FG 2500	341 110 / FG 2500	341 112 / FG 3500	341 108 / FG 3000	341 112 / FG 3500
Chassis HV height adjustable	341 111 / FG 2500	341 111 / FG 2500	341 113 / FG 3500	341 109 / FG 3000	341 113 / FG 3500
Changeover contactors designed for LTP power output <sup>(5)</sup>	343 021 / E-US 160	343 021 / E-US 160	343 022 / E-US 200	343 022 / E-US 200	343 023 / E-US 250
Galvanized base frame	342 113	342 113	342 115	342 114	342 115
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 1 <sup>(5)</sup>	342 140	342 140	342 140	342 140	342 140
Automatic fuel pump <sup>(5)</sup>	342 006	342 006	342 006	342 006	342 006
Insulation monitoring	on request	on request	on request	on request	on request
Universal current sensitive FI circuit breaker Type B	342 037	342 037	342 037	342 037	342 037
Large tank 48h at a 75% load	343 309 / 890 L	343 309 / 890 L	343 310 / 1,750 L	343 310 / 1,750 L	343 310 / 1,750 L
Socket combination	342 054	342 054	342 054	342 054	342 054
Soot particulate filter	-	342 402	342 403	-	342 403
Terminal strip	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> All generators that are marked with  fulfil emissions Stage 3A

<sup>(3)</sup> Only for model series AS

<sup>(4)</sup> Not upgradable

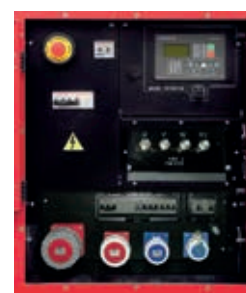
<sup>(5)</sup> Description of Optional Package Rental 1 on [page 70](#)

<sup>(6)</sup> Not as per Stawar



Prepared for the remote monitoring system E-RMA

A description of the instrument panel can be found on [page 69](#)



### POWER Line MS / AS 170 – 225 kVA

Modell - manual version	ESE 170 VW / MS	ESE 200 VW / MS <sup>(2)</sup>	ESE 220 VW / MS	ESE 225 VW / MS <sup>(2)</sup>
Order No.	<b>333 259</b>	<b>333 260</b>	<b>333 261</b>	<b>333 268</b>
Modell - automatic version	ESE 170 VW / AS	ESE 200 VW / AS <sup>(2)</sup>	ESE 220 VW / AS	ESE 225 VW / AS <sup>(2)</sup>
Order No.	<b>331 259</b>	<b>331 260</b>	<b>331 261</b>	<b>331 268</b>
Max. output [LTP] kVA / kW	164.0 / 131.2	196.0 / 156.8	220.0 / 176.0	220.0 / 176.0
Continuous power output [PRP] kVA / kW	154.9 / 124.0	179.0 / 143.2	202.7 / 162.1	200.5 / 160.4
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	223.0 A 3~ / 0.8	258.4 A 3~ / 0.8	292.0 A 3~ / 0.8	289.4 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	VOLVO TAD731GE	VOLVO TAD752GE	VOLVO TAD733GE	VOLVO TAD753GE
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	7150 cm <sup>3</sup>	7150 cm <sup>3</sup>	7150 cm <sup>3</sup>	7150 cm <sup>3</sup>
Engine output (PRP)	138.0 kW	166.0 kW	181.0 kW	184.0 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 350	Diesel / 350	Diesel / 350	Diesel / 350
Consumption / running time at 75% load of about <sup>(4)</sup>	26.9 l / 13 h	33.0 l / 10.5 h	35.0 l / 10 h	35.6 l / 9.8 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Sound power level LWA	97 dB(A)	94 dB(A)	94 dB(A)	94 dB(A)
Sound pressure level LPA (7 m)	72 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)
Weight (kg)	2224	2224	2540	2540
Dimensions L × W × H (mm)	3414×1338×1768	3414×1338×1978	3414×1338×1978	3414×1338×1978
Available accessories	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request
Chassis ST rigid	<b>341 112 / FG 3500</b>	on request	on request	on request
Chassis HV height adjustable	<b>341 113 / FG 3500</b>	on request	on request	on request
Changeover contactors designed for LTP power output <sup>(5)</sup>	<b>343 023 / E-US 250</b>	<b>343 024 / E-US 315</b>	<b>343 025 / E-US 400</b>	<b>343 025 / E-US 400</b>
Galvanized base frame	<b>342 115</b>	<b>342 115</b>	<b>342 115</b>	<b>342 115</b>
E-RMA SIM	<b>342 220</b>	<b>342 220</b>	<b>342 220</b>	<b>342 220</b>
E-RMA LAN	<b>342 221</b>	<b>342 221</b>	<b>342 221</b>	<b>342 221</b>
E-RMA web supervisor annual fee	<b>342 222</b>	<b>342 222</b>	<b>342 222</b>	<b>342 222</b>
Special equipment <sup>(4)</sup>	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 1 <sup>(6)</sup>	<b>342 140</b>	<b>342 140</b>	<b>342 140</b>	<b>342 140</b>
Automatic fuel pump <sup>(5)</sup>	<b>342 006</b>	<b>342 006</b>	<b>342 006</b>	<b>342 006</b>
Insulation monitoring	on request	on request	on request	on request
Universal current sensitive FI circuit breaker Type B	<b>342 037</b>	on request	on request	on request
Large tank 48h at a 75% load	<b>343 310 / 1,750 L</b>	<b>343 310 / 1,750 L</b>	<b>343 310 / 1,750 L</b>	<b>343 310 / 1,750 L</b>
Socket combination	<b>342 054</b>	<b>342 054</b>	<b>342 054</b>	<b>342 054</b>
Soot particulate filter	–	<b>342 403</b>	–	<b>342 403</b>
Terminal strip	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030	MS standard version / AS version 343 030

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore it is not binding

<sup>(2)</sup> All generators that are marked with  fulfil emissions Stage 3A

<sup>(3)</sup> Only for model series AS

<sup>(4)</sup> Not upgradable

<sup>(5)</sup> Description of Optional Package Rental 1 on [page 70](#)

<sup>(6)</sup> Not as per StawaR

- Modern, water-cooled industrial engines from PERKINS and VOLVO
- A galvanised and powder-coated noise absorption hood
- Internal, lockable tank
- Self-explanatory and simple to operate digital control system
- Prepared for the remote monitoring system E-RMA
- Brush-less, electronically controlled generators
- Coolant pre-warming standard in the model series AS
- Liquid collecting tray <sup>(6)</sup> to protect the environment



AS: Automatic instrument panel, coolant preheating system, crane lifting eyes

### ► ESE 330 VW / AS

The socket combination can be obtained as special equipment

3A

3A

### POWER Line AS 275 – 370 kVA

Modell - automatic version	ESE 275 VW / AS	ESE 280 VW / AS <sup>(2)</sup>	ESE 330 VW / AS	ESE 360 VW / AS <sup>(2)</sup>	ESE 370 VW / AS
Order No.	331 224	331 238	331 215	331 269	331 236
Max. output [LTP] kVA / kW	275.0 / 220.0	275.0 / 220.0	330.0 / 264.0	357.6 / 286.1	370.0 / 296.0
Continuous power output [PRP] kVA / kW	248.7 / 198.9	253.0 / 202.0	315.0 / 252.0	326.1 / 260.9	354.1 / 283.2
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	359.0 A 3~ / 0.8	365.1 A 3~ / 0.8	454.7 A 3~ / 0.8	470.7 A 3~ / 0.8	511.0 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	VOLVO TAD734GE	VOLVO TAD754GE	VOLVO TAD1342GE	VOLVO TAD1351GE	VOLVO TAD1342GE
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	7150 cm <sup>3</sup>	7150 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>
Engine output (PRP)	227.0 kW	228.0 kW	313.0 kW	286.0 kW	313.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636
Consumption / running time at 75% load of about <sup>(4)</sup>	44.6 l / 14.3 h	46.4 l / 13.7 h	48.5 l / 13.1 h	52.4 l / 12.1 h	54.4 l / 11.6 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Sound power level LWA	97 dB(A)	97 dB(A)	97 dB(A)	97 dB(A)	97 dB(A)
Sound pressure level LPA (7 m)	72 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)	72 dB(A)
Weight (kg)	2990	2990	3671	3671	3671
Dimensions L × W × H (mm)	3951×1438×2085	3951×1438×2085	3951×1438×2085	3951×1438×2085	3951×1438×2085
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 025 / E-US 400	343 025 / E-US 400	343 026 / E-US 630	343 026 / E-US 630	343 026 / E-US 630
Galvanized base frame	342 116	342 116	342 116	342 116	342 116
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(5)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 2 <sup>(6)</sup>	342 141	342 141	342 141	342 141	342 141
Automatic fuel pump	342 006	342 006	342 006	342 006	342 006
Insulation monitoring	on request	on request	on request	on request	on request
Large tank 48h at a 75% load	on request	on request	on request	on request	on request
Socket combination	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053
Liquid collecting tray <sup>(6)</sup>	342 130	342 130	342 130	342 130	342 130
Universal current sensitive FI circuit breaker Type B	on request	on request	on request	on request	on request

(1) This data is based on average values as individual cases can vary and therefore they are not binding

(2) All generators that are marked with  fulfil emissions Stage 3A

(3) Not upgradable

(4) Not available

(5) Description of Optional Package Rental 2 on [page 70](#)

(6) Not as per Stawar



A description of the instrument panel can be found on [page 69](#)



Prepared for the remote monitoring system E-RMA



3A


3A

3A

### POWER Line AS 415 - 505 kVA

Modell - automatic version	ESE 415 VW / AS	ESE 420 VW / AS <sup>(2)</sup>	ESE 455 VW / AS <sup>(2)</sup>	ESE 460 VW / AS	ESE 505 VW / AS <sup>(2)</sup>
Order No.	331 216	331 270	331 271	331 217	331 272
Max. output [LTP] kVA / kW	416.1 / 332.9	421.9 / 337.5	456.8 / 365.4	455.6 / 364.5	508.2 / 406.6
Continuous power output [PRP] kVA / kW	380.0 / 303.9	383.4 / 306.7	415.8 / 332.6	414.6 / 331.7	416.3 / 369.0
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	548.3 A 3~ / 0.8	553.4 A 3~ / 0.8	600.2 A 3~ / 0.8	598.4 A 3~ / 0.8	665.8 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	VOLVO TAD1343GE	VOLVO TAD1354GE	VOLVO TAD1355GE	VOLVO TAD1344GE	VOLVO TAD1650GE
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	16120 cm <sup>3</sup>
Engine output (PRP)	335.0 kW	339.0 kW	369.0 kW	364.0 kW	402.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636
Consumption / running time at 75% load of about <sup>(4)</sup>	58.1 l / 10.9 h	62.2 l / 10.2 h	68.2 l / 9.3 h	64.4 l / 9.9 h	73.5 l / 8.6 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Sound power level LWA	97 dB(A)	97 dB(A)	97 dB(A)	98 dB(A)	105 dB(A)
Sound pressure level LPA (7 m)	72 dB(A)	72 dB(A)	72 dB(A)	73 dB(A)	80 dB(A)
Weight (kg)	3671	3671	3671	3671	4888
Dimensions L × W × H (mm)	3951×1438×2085	3951×1438×2085	3951×1438×2085	3951×1438×2085	4400×1560×2250
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 026 / E-US 630	343 026 / E-US 630	343 027 / E-US 800	343 027 / E-US 800	343 027 / E-US 800
Galvanized base frame	342 116	342 116	342 116	342 116	<sup>(4)</sup>
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(3)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 2 <sup>(5)</sup>	342 141	342 141	342 141	342 141	342 141
Automatic fuel pump	342 006	342 006	342 006	342 006	342 006
Insulation monitoring	on request	on request	on request	on request	on request
Large tank 48h at a 75% load	on request	on request	on request	on request	on request
Socket combination	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053
Liquid collecting tray <sup>(6)</sup>	342 130	342 130	342 130	342 130	342 130
Universal current sensitive FI circuit breaker Type B	on request	on request	on request	on request	on request

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore it is not binding

<sup>(2)</sup> All generators that are marked with  fulfil emissions Stage 3A

<sup>(3)</sup> Not upgradable

<sup>(4)</sup> Not available

<sup>(5)</sup> Description of Optional Package Rental 2 on [page 70](#)

<sup>(6)</sup> Not as per StawaR

- Modern, water-cooled industrial engines from VOLVO
- A galvanised and powder-coated noise absorption hood
- Internal, lockable tank
- Self-explanatory and simple to operate digital control system
- Prepared for the remote monitoring system E-RMA
- Brush-less, electronically controlled generators
- Coolant pre-warming standard in the model series AS



A description of the instrument panel can be found on [page 69](#)



**AS:** Automatic instrument panel, coolant preheating system, crane lifting eyes

► ESE 550 VW / AS

**3A**

### POWER Line AS 510 – 705 kVA

Modell - automatic version	ESE 510 VW / AS	ESE 555 VW / AS <sup>(2)</sup>	ESE 560 VW / AS	ESE 590 VW / AS	ESE 705 VW / AS
Order No.	331 218	331 273	331 219	331 220	331 237
Max. output [LTP] kVA / kW	505.9 / 404.7	557.9 / 445.6	546.0 / 436.8	601.0 / 480.8	702.0 / 561.6
Continuous power output [PRP] kVA / kW	455.4 / 364.3	506.3 / 405.0	504.7 / 403.8	567.0 / 453.6	631.8 / 505.4
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	657.3 A 3~ / 0.8	730.8 A 3~ / 0.8	728.5 A 3~ / 0.8	818.4 A 3~ / 0.8	911.9 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	VOLVO TAD1345GE	VOLVO TAD1651GE	VOLVO TAD1641GE	VOLVO TAD1642GE	VOLVO TWD1643GE
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	12780 cm <sup>3</sup>	16120 cm <sup>3</sup>	16120 cm <sup>3</sup>	16120 cm <sup>3</sup>	16120 cm <sup>3</sup>
Engine output (PRP)	398.0 kW	441.0 kW	441.0 kW	514.0 kW	553.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636
Consumption / running time at 75% load of about <sup>(1)</sup>	70.4 l / 9 h	81.5 l / 7.8 h	77.6 l / 8.2 h	85.5 l / 7.4 h	97.4 l / 6.5 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Sound power level LWA	98 dB(A)	105 dB(A)	105 dB(A)	105 dB(A)	105 dB(A)
Sound pressure level LPA (7 m)	73 dB(A)	80 dB(A)	80 dB(A)	80 dB(A)	80 dB(A)
Weight (kg)	4100	4888	4495	4888	5490
Dimensions L × W × H (mm)	3951×1438×2085	4400×1560×2250	4400×1560×2250	4400×1560×2250	4700×1757×2510
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 027 / E-US 800	343 028 / E-US 1000	343 027 / E-US 800	343 028 / E-US 1000	343 029 / E-US 1250
Galvanized base frame	342 116	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>	<sup>(4)</sup>
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(5)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Optional Package Rental 2 <sup>(5)</sup>	342 141	342 141	342 141	342 141	342 141
Automatic fuel pump	342 006	342 006	342 006	342 006	342 006
Insulation monitoring	on request	on request	on request	on request	on request
Large tank 48h at a 75% load	on request	on request	on request	on request	on request
Socket combination	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053	342 052 / 342 053
Liquid collecting tray <sup>(6)</sup>	342 130	342 130	342 130	342 130	342 130
Universal current sensitive FI circuit breaker Type B	on request	on request	on request	on request	on request

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> All generators that are marked with **3A** fulfil emissions Stage 3A

<sup>(3)</sup> Not upgradable

<sup>(4)</sup> Not available

<sup>(5)</sup> Description of Optional Package Rental 2 on [page 70](#)

<sup>(6)</sup> Not as per Stawar

Chassis is German Road Traffic Registration Act compliant

All chassis including drawbar are fully galvanised. Single-axle and tandem trailers are available with rigid or adjustable hitches and towing lugs for cars / lorries.



► ESE 50 YW / MS with chassis

Chassis						
Model (single axle)	FG 75 ST <sup>(1)</sup>	FG 75 HV <sup>(1)(2)</sup>	FG 135 ST	FG 135 HV <sup>(2)</sup>	FG 180 ST	FG 180 HV <sup>(2)</sup>
Order No.	341 100	341 101	341 102	341 103	341 106	341 107
Permissible total weight (kg)	750	750	1350	1350	1800	1800
Single axle / tandem	Single axle	Single axle	Single axle	Single axle	Single axle	Single axle
Trailer drawbar	Rigid	Height adjustable	Rigid	Height adjustable	Rigid	Height adjustable
Inertial brake	Non-braked	Non-braked	Yes	Yes	Yes	Yes
Dimension L × W (mm)	3180 × 1590	3610 × 1590	3450 × 1560	4100 × 1560	3760 × 1560	4570 × 1560
Model (Tandem)	FG 2500 ST	FG 2500 HV <sup>(2)</sup>	FG 3000 ST	FG 3000 HV <sup>(2)</sup>	FG 3500 ST	FG 3500 HV <sup>(2)</sup>
Order No.	341 110	341 111	341 108	341 109	341 112	341 113
Permissible total weight (kg)	2500	2500	3000	3000	3500	3500
Single axle / tandem	Tandem	Tandem	Tandem	Tandem	Tandem	Tandem
Trailer drawbar	Rigid	Height adjustable	Rigid	Height adjustable	Rigid	Height adjustable
Inertial brake	Yes	Yes	Yes	Yes	Yes	Yes
Dimension L × W (mm)	4100 × 1630	4630 × 1630	4705 × 1720	5410 × 1720	5110 × 1850	4750 × 1850

(1) Standard front stabilizer wheel with clamp  
(2) Additional DIN towing lug 40 mm included in the delivery:

Equipment features

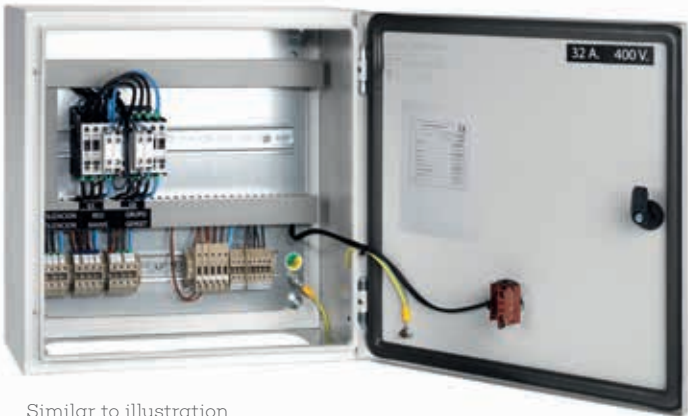
HV = height adjustable trailer drawbar

- DIN towing lug 40 mm for a lorry
- Parking supports at the rear (1 pair)
- Fully automatic stabiliser wheel (reinforced) (except FG 75)

Equipment features

ST = rigid trailer drawbar

- Ball coupling for a passenger car
- Parking supports at the rear (1 pair)
- Fully automatic stabiliser wheel (reinforced) (except FG 75)



Similar to illustration

Switching contactor (Load Transfer Switch Panel)

The ENDRESS switching contactors are an option for the automatic mains system. In order to ensure easy connection to the automatic mains system on the generator, all cables have already been installed in the factory up to a terminal strip integrated in the cabinet. The protection class of the steel cabinet is IP 45. Including Emergency Stop button and a 5 m control cable.

# POWER Line Open Construction

15 - 705 kVA



► ESE 110 PW

## POWER Line Open Construction 15 - 65 kVA

Model	ESE 15 YW	ESE 20 YW	ESE 35 YW <sup>(4)</sup>	ESE 45 YW	ESE 65 PW
Order No.	330 221	330 222	330 248	330 228	330 250
Max. output [LTP] kVA / kW	14.3 / 11.4	19.3 / 15.4	32.5 / 26.0	46.0 / 36.8	66.7 / 53.4
Continuous power output [PRP] kVA / kW	13.0 / 11.2	17.6 / 14.0	30.5 / 24.4	42.0 / 33.6	60.5 / 48.4
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	18.7 A 3~ / 0.8	25.4 A 3~ / 0.8	44.0 A 3~ / 0.8	60.6 A 3~ / 0.8	87.6 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	YANMAR 3TNV88	YANMAR 4TNV88	YANMAR 4TNV98	YANMAR 4TNV98T	PERKINS 1103A-33TG2
Construction type	3-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	1642 cm <sup>3</sup>	2190 cm <sup>3</sup>	3319 cm <sup>3</sup>	3319 cm <sup>3</sup>	3300 cm <sup>3</sup>
Engine output (PRP)	12.7 kW	16.9 kW	31.2 kW	38.3 kW	55.0 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical	1500 / Mechanical
Fuel / tank capacity (litre)	Diesel / 51	Diesel / 51	Diesel / 51	Diesel / 51	Diesel / 209
Consumption / running time at 75% load of about <sup>(1)</sup>	2.8 l / 179 h	3.7 l / 13.7 h	5.8 l / 8.7 h	7.9 l / 6.4 h	10.4 l / 20 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V
Weight (kg)	390	507	560	580	909
Dimensions L × W × H (mm)	1600×870×1000	1600×870×1000	2000×920×1100	2000×920×1100	2200×1000×1743
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 016 / E-US 32	343 016 / E-US 32	343 017 / E-US 63	343 018 / E-US 80	343 019 / E-US 100
Exhaust gas expansion joint	342 022	342 022	342 022	342 022	342 022
Additional sound absorber	342 009	342 009	342 009	342 009	342 009
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(3)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Automatic fuel pump	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	<sup>(2)</sup>	342 006

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not available

<sup>(3)</sup> Not upgradable

<sup>(4)</sup> All generators that are marked with **3A** fulfil emissions Stage 3A



# POWER Line Open Construction

15 - 705 kVA



Now available  
with FPT engines - for  
more information:

Click here to go to the  
FPT press release on  
our homepage



Prepared for the remote monitoring system E-RMA

A description of the  
instrument panel can be  
found on [page 69](#)



## POWER Line Open Construction 80 - 220 kVA

Model	ESE 80 PW	ESE 110 PW	ESE 150 VW	ESE 170 VW	ESE 220 VW
Order No.	330 252	330 254	330 257	330 259	330 261
Max. output [LTP] kVA / kW	83.0 / 66.4	114.7 / 91.7	143.0 / 114.4	164.0 / 131.2	220.0 / 176.0
Continuous power output [PRP] kVA / kW	78.0 / 62.4	103.8 / 83.0	129.8 / 103.8	154.9 / 124.0	202.7 / 162.1
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	112.6 A 3~ / 0.8	149.8 A 3~ / 0.8	187.3 A 3~ / 0.8	223.6 A 3~ / 0.8	292.5 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	PERKINS 1104A-44TG2	PERKINS 1104C-44TAG2	VOLVO TAD532GE	VOLVO TAD731GE	VOLVO TAD733GE
Construction type	4-cylinder 4-stroke	4-cylinder 4-stroke	4-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	4400 cm <sup>3</sup>	4410 cm <sup>3</sup>	4760 cm <sup>3</sup>	7150 cm <sup>3</sup>	7150 cm <sup>3</sup>
Engine output (PRP)	73.4 kW	93.6 kW	116.0 kW	138.0 kW	181.0 kW
Rotational speed (rpm) / regulation	1500 / Mechanical	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 243	Diesel / 240	Diesel / 340	Diesel / 340	Diesel / 340
Consumption / running time at 75% load of about <sup>(1)</sup>	13.4 l / 18.1 h	18.0 l / 13.3 h	21.9 l / 15.5 h	26.9 l / 12.7 h	35.0 l / 9.7 h
Starting system / battery	E-Start / 12 V	E-Start / 12 V	E-Start / 12 V	E-Start / 24 V	E-Start / 24 V
Weight (kg)	964	1170	1491	1796	2238
Dimensions L × W × H (mm)	2200×1000×1734	2200×1000×1620	2200×1000×1743	2650×1100×1965	2650×1100×1965
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 020 / E-US 125	343 021 / E-US 160	343 022 / E-US 200	343 023 / E-US 250	343 025 / E-US 400
Exhaust gas expansion joint	342 022	342 022	342 022	342 022	342 022
Additional sound absorber	342 009	342 009	342 009	342 009	342 009
E-RMA SIM	342 220	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222	342 222
Special equipment <sup>(2)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Automatic fuel pump	342 006	342 006	342 006	342 006	342 006

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

## Equipment features

- Automatic instrument panel
- Coolant preheating system
- Fuel tank
- Modern, water-cooled industrial engines from YANMAR, PERKINS and VOLVO
- Automatic instrument panel for operation as an emergency power generator
- Coolant preheating as standard for all sizes
- Brushless MeccAlte generators with electronic control behaviour for sensitive consumers
- Prepared for the remote monitoring system E-RMA
- Optional: Changeover contactors for an emergency power installation

# POWER Line Open Construction

15 - 705 kVA



► ESE 415 VW

## POWER Line Open Construction 275 - 415 kVA

Model	ESE 275 VW	ESE 330 VW	ESE 370 VW	ESE 415 VW
Order No.	330 224	330 215	330 236	330 216
Max. output [LTP] kVA / kW	275.0 / 220.0	330.0 / 264.0	370.0 / 296.0	416.1 / 332.9
Continuous power output [PRP] kVA / kW	248.7 / 198.9	315.0 / 252.0	354.1 / 283.3	379.8 / 303.9
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos $\varphi$	359.0 A 3~ / 0.8	454.7 A 3~ / 0.8	511.1 A 3~ / 0.8	548.2 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	VOLVO TAD734GE	VOLVO TAD1342GE	VOLVO TAD1342GE	VOLVO TAD1343GE
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	7150 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>
Engine output (PRP)	227.0 kW	313.0 kW	313.0 kW	335.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 400	Diesel / 636	Diesel / 636	Diesel / 636
Consumption / running time at 75% load of about <sup>(1)</sup>	41.5 l / 19.6 h	48.8 l / 12.1 h	54.4 l / 11.7 h	58.1 l / 10.9 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Weight (kg)	2177	3160	3160	3050
Dimensions L × W × H (mm)	2672×1181×1844	3300×1460×1965	3300×1460×1965	3300×1400×1917
Available accessories	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request
Changeover contactors designed for LTP power output	343 025 / E-US 400	343 026 / E-US 630	343 026 / E-US 630	343 026 / E-US 630
Exhaust gas expansion joint	342 022	342 022	342 022	342 022
Additional sound absorber	342 010	342 010	342 010	342 010
E-RMA SIM	342 220	342 220	342 220	342 220
E-RMA LAN	342 221	342 221	342 221	342 221
E-RMA web supervisor annual fee	342 222	342 222	342 222	342 222
Special equipment <sup>(2)</sup>	Order No.	Order No.	Order No.	Order No.
Automatic fuel pump	342 006	342 006	342 006	342 006
Liquid collecting tray <sup>(3)</sup>	342 130	342 130	342 130	342 130

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

<sup>(3)</sup> Not as per StawaR

# POWER Line Open Construction

15 - 705 kVA



Water-cooled VOLVO 4-stroke 6-cylinder in-line engines with turbochargers / charge air cooling ensure a qualitative drive for these emergency power generators.

The industrial engines with direct injection and optimised combustion, stand for a fast response time in cold weather and are characterised by low waste gas emissions and economic efficiency.

We use brushless MeccAlte generators with electronic control processes for sensitive consumers

The generators conform with insulation class H according to VDE 0530. In combination with our E-RMA Remote Monitoring Application, you will have an overview of your emergency power supply at all times.

A description of the instrument panel can be found on [page 69](#)



Prepared for the remote monitoring system E-RMA

## POWER Line Open Construction 460 - 705 kVA

Model	ESE 460 VW	ESE 510 VW	ESE 560 VW	ESE 590 VW	ESE 705 VW
Order No.	<b>330 217</b>	<b>330 218</b>	<b>330 219</b>	<b>330 220</b>	<b>330 237</b>
Max. output [LTP] kVA / kW	455.6 / 364.5	505.9 / 404.7	546.0 / 436.8	601.0 / 480.8	702.0 / 561.6
Continuous power output [PRP] kVA / kW	414.6 / 331.7	455.4 / 364.3	504.7 / 403.8	567.0 / 453.6	631.8 / 505.4
Generator model	MeccAlte	MeccAlte	MeccAlte	MeccAlte	MeccAlte
Construction type	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Insulation	Class H	Class H	Class H	Class H	Class H
Rated voltage	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~	400V 3~ / 230V 1~
Nominal current / Cos φ	598.4 A 3~ / 0.8	657.3 A 3~ / 0.8	728.5 A 3~ / 0.8	818.4 A 3~ / 0.8	911.9 A 3~ / 0.8
Frequency / Regulation	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic	50 Hz / electronic
Engine type	<b>VOLVO TAD1344GE</b>	<b>VOLVO TAD1345GE</b>	<b>VOLVO TAD1641GE</b>	<b>VOLVO TAD1642GE</b>	<b>VOLVO TWD1643GE</b>
Construction type	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke	6-cylinder 4-stroke
Cooling system	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Displacement	12780 cm <sup>3</sup>	12780 cm <sup>3</sup>	16120 cm <sup>3</sup>	16120 cm <sup>3</sup>	16120 cm <sup>3</sup>
Engine output (PRP)	364.0 kW	398.0 kW	398.0 kW	514.0 kW	553.0 kW
Rotational speed (rpm) / regulation	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic	1500 / Electronic
Fuel / tank capacity (litre)	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636	Diesel / 636
Consumption / running time at 75% load of about <sup>(1)</sup>	64.4 l / 9.9 h	70.4 l / 9 h	72.6 l / 8.8 h	86.0 l / 17.4 h	97.4 l / 6.5 h
Starting system / battery	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V	E-Start / 24 V
Weight (kg)	3370	3180	3467	3620	4590
Dimensions L × W × H (mm)	3300×1460×1965	3300×1400×1917	3500×1500×2120	3500×1500×2120	3800×1670×2320
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.
Maintenance kit	on request	on request	on request	on request	on request
Changeover contactors designed for LTP power output	<b>343 027 / E-US 800</b>	<b>343 027 / E-US 800</b>	<b>343 027 / E-US 800</b>	<b>343 028 / E-US 1000</b>	<b>343 029 / E-US 1250</b>
Exhaust gas expansion joint	<b>342 022</b>	<b>342 022</b>	<b>342 022</b>	<b>342 022</b>	<b>342 022</b>
Additional sound absorber	<b>342 010</b>	<b>342 010</b>	<b>342 010</b>	<b>342 010</b>	<b>342 010</b>
E-RMA SIM	<b>342 220</b>	<b>342 220</b>	<b>342 220</b>	<b>342 220</b>	<b>342 220</b>
E-RMA LAN	<b>342 221</b>	<b>342 221</b>	<b>342 221</b>	<b>342 221</b>	<b>342 221</b>
E-RMA web supervisor annual fee	<b>342 222</b>	<b>342 222</b>	<b>342 222</b>	<b>342 222</b>	<b>342 222</b>
Special equipment <sup>(2)</sup>	Order No.	Order No.	Order No.	Order No.	Order No.
Automatic fuel pump	<b>342 006</b>	<b>342 006</b>	<b>342 006</b>	<b>342 006</b>	<b>342 006</b>
Liquid collecting tray <sup>(3)</sup>	<b>342 130</b>	<b>342 130</b>	<b>342 130</b>	<b>342 130</b>	<b>342 130</b>

<sup>(1)</sup> This data is based on average values as individual cases can vary and therefore they are not binding

<sup>(2)</sup> Not upgradable

<sup>(3)</sup> Not as per StawaR

## Equipment features

- Automatic instrument panel
- Coolant preheating system
- Fuel tank



Instrument panel	Construction site generators		RENTAL Line	POWER Line										
				Manual instrument panel			Automatic instrument panel				Open construction			
Displays	Analogue		Digital	Digital			Digital				Digital			
Operating mode	Manual		Auto / manual	Manual			Auto / manual				Auto / manual			
Display - operation														
Start / Stop	Key		Auto / buttons	Buttons			Auto / buttons				Auto / buttons			
Monitoring the mains voltage	-		✓	-			✓				✓			
Generator voltage 3~	-		✓	✓			✓				✓			
Generator voltage 1~	-		✓	✓			✓				✓			
Current strength 3~	-		✓	✓			✓				✓			
Current strength 1~	✓		✓	✓			✓				✓			
Frequency meter	✓		✓	✓			✓				✓			
Operating hours counter	✓		✓	✓			✓				✓			
Output	-		✓	✓			✓				✓			
Fuel indicator	-		✓	✓			✓				✓			
Engine temperature	-		✓	✓			✓				✓			
Oil pressure	-		✓	✓			✓				✓			
Engine speed	-		✓	✓			✓				✓			
Warning messages – switching off														
Generator over / undervoltage	-		A	A			A				A			
Generator over / under-frequency	-		A	A			A				A			
Battery over-/undervoltage	-		W	W			W				W			
Engine temperature too high	A		A	A			A				A			
Engine over / under rotational speed	A		A	A			A				A			
Overload	A		A	A			A				A			
Battery charger fault	A		W	W			W				W			
Low fuel level	-		W / A	W / A			W / A				W / A			
Low oil pressure	A		A	A			A				A			
Start attempt failed	-		W	W			W				W			
Leakage warning	-		A	A			A				-			
Collective fault acoustic	-		W	W			W				W			
Fuses														
3-pole line circuit breaker	✓		on request	✓			✓				✓			
4-pole line circuit breaker	on request		✓	on request			on request				on request			
FI circuit breaker	✓		✓	✓			-				-			
Insulation monitoring	on request		on request	on request			on request				on request			
EMERGENCY-STOP button	✓		✓	✓			✓				✓			
Further equipment features														
Connection on main switch	-		-	-			ESE 65 - 225				ESE 65 - 225			
Terminal strip	-		✓	starting from ESE 65 - 225			starting from ESE 275				starting from ESE 275			
E-RMA SIM	-		Option	Option			Option				Option			
E-RMA LAN	-		Option	Option			Option				Option			
External starting option	Option		Option	Option			Option				Option			
Sockets (model ESE)	10 - 20	30 - 50	20 - 225	15 - 20	30 - 50	65 - 225	15 - 20	30 - 50	65 - 225	275 - 705	15 - 20	30 - 50	65 - 705	
Item Code.				342 054			342 054 342 052 342 053							
CEE 400 V / 125 A	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CEE 400 V / 63 A	-	1	1	-	1	1	-	1	1	1	1	-	1	-
CEE 400 V / 32 A	1	1	1	1	1	1	1	-	1	1	1	1	-	-
CEE 400 V / 16 A	1	-	1	1	1	1	-	-	1	1	-	-	-	-
CEE 230 V / 16 A	2	2	1	1	-	-	-	-	-	-	-	-	-	-
230 V / 16 A shockproof socket	1	1	1	1	1	1	-	-	1	1	1	-	-	-

✓: Yes | **W**: Warning | **A**: Switching off



POWER Line model series  
AS + open construction

The instrument panels for automatic models ESE 15 to ESE 50 are fitted with a digital control for fully automatic network monitoring.

Furthermore the functions of the power supply system are securely monitored. A CEE 400V socket matched to the generating set capacity serves as a connection point for the power.

sockets		
Model	ESE 15 - 20	ESE 30 - 50
CEE 400 V / 63 A	-	1
CEE 400 V / 32 A	1	-

No switching off or warning for a low fuel level for the models ESE 10-20 YW / B-A



Optional Package Rental 1

- The main battery switch
- Filter with water trap
- 3-way fuel tap
- Earthing kit



**The main battery switch**  
separates the battery from all components of the generator



**Diesel filter**  
large dimensioned, with a water separator and drain screw



**A 3-way fuel tap** for direct connecting up of an external fuel tank



**Optional: Galvanized base frame**  
for safe transport on the building site

Optional Package Rental 2

- The main battery switch
- 3-way fuel tap
- Earthing kit



**The main battery switch**  
separates the battery from all components of the generator



**A 3-way fuel tap** for direct connecting up of an external fuel tank



Option: Socket combination

Model	ESE 65 - 225	ESE 275 - 705	ESE 275 - 705
Order No.	342 054	342 052	342 053
Protection Class	IP 67	IP 67	IP 67
Socket combinations (consisting of)	1 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A	1 × 230 V / 16 A 1 × CEE 400 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A	1 × 230 V / 16 A 1 × CEE 400 V / 32 A 1 × CEE 400 V / 63 A 1 × CEE 400 V / 125 A

## Mobile floodlight installations

ENDRESS 

*Ideal for rentals!  
Floodlight system and mobile power  
supply in one!*



For further  
information:

Click here to go to the **mobile  
floodlight systems** on our homepage

### Floodlight system and mobile power supply in one!

ENDRESS offers compact mobile light masts. They are uncomplicated and can be positioned precisely and they enable efficient work to be done at every location.

It does not matter one is dealing with a rescue incident, on motorway and airport building sites, in building construction and civil engineering or for mining: A reliable supply of light is decisive.

# Mobile floodlight installations



► EFA 830 S4



► EFA 900 S4



► EFA 900C S4  
with ESE 1408 DHG ES Diesel DUPLEX  
Compact transport dimensions

## Floodlight installations

Model	EFA 830 S4	EFA 830 S6	EFA 900 S4	EFA 900 C S4	EFA 900 C S6
Order No.	716 260	716 280	716 274	716 266	716 267
Light output	6000 W	9000 W	1200 W	6000 W	9000 W
Lamps	Halogen	Halogen	LED	Halogen	Halogen
Luminous flux (Lumen) approximately	132,000 lm	198,000 lm	146,800 lm	132,000 lm	198,000 lm
Lamps	4 × 1500 W	6 × 1500 W	4 × 300 W	4 × 1500 W	6 × 1500 W
Max. light spot height (m)	8.3	8.3	9.0	9.0	9.0
Min. transport height (m)	2.7	2.7	2.54	2.4	2.4
Light masts					
Mast	Continuously rotational through 360°	Continuously rotational through 360°	Rotational through 340°	Continuously rotational through 360°	Continuously rotational through 360°
Version	Aluminium telescopic mast	Aluminium telescopic mast	Aluminium telescopic mast	Aluminium telescopic mast	Aluminium telescopic mast
Function	Mechanical / hand crank	Mechanical / hand crank	Hydraulic	Mechanical / hand crank	Mechanical / hand crank
Chassis	FG 100 LM	FG 160 LM	Yes	FG 100 TM HV	FG 100 TM HV
Dimension L × W (mm)	4040 × 1600	4900 × 1600	3820 × 1570	2350 × 1600	2350 × 1600
Tyres	13"	13"		13"	13"
Trailer drawbar	Height adjustable	Height adjustable	Height adjustable	Height adjustable	Height adjustable
Inertial brake	Yes	Yes	Yes	Yes	Yes
Permissible total weight (kg)	1000	1600	1600	1000	1000
Permissible drawbar load (kg)	75	75	100	75	75
Generator recommendation	ESE 15 YW-B	ESE 20 YW-B, ESE 30 YW-B, ESE 35 YW-B, ESE 45 YW-B, ESE 50 YW-B	ESE 20 YW-MS	ESE 1408 DLG ES DI	ESE 1408 DLG ES DI

Available accessories			Order No.
HMI halogen metal vapour lamps - white light			E 130 589
HPS high-pressure sodium vapour lamp- yellow light			E 131 605
Illumination options.	Halogen floodlight standard	Halogen HML metal vapour lamps	HPS high-pressure sodium vapour lamps
Turn-on time	immediate	approx. 3 - 4 min.	approx. 1min.
Restarting time	immediate	approx. 10 min.	approx. 1min.
Service life (hours) approx.	2,000 hours	6,000 hours	10,000 hours
Output (Watts)	1500 W	400 W	400 W
Luminous flux (Lumen) approximately	33,000 lm	44,000 lm	55,000 lm



- Maintenance-free aluminium telescopic mast with easy operation via a hand crank
- Self-locking cranking winch
- 360° continuous rotary disk
- Swivelling special halogen floodlight
- Fully galvanized, StVZO-compliant chassis
- Height-adjustable trailer drawbar
- Telescopic support for a secure stance

Above: Fully galvanized, 360° continuous rotary disk  
Below: Fast and easy alignment



# Mobile floodlight installations

For further information:



Click here to go to our mobile floodlight video on YouTube



- EFA 840 S4 320 & 320 PLUG-IN
- EFA 850 S4 320 ST hybrid
- EFA 840 S4 150 hybrid
- EFA 850 S4 150 ST hybrid
- EFA 630 S4 185
- EFA 630 UFO 400

Floodlight installations			Hybrid		Plug-in		
Model	EFA 840 S4 320	EFA 850 S4 320 ST <sup>(1)</sup>	EFA 840 S4 150	EFA 850 S4 150 ST	EFA 630 S4 185	EFA 630 UFO 400	EFA 840 S4 320
Order No.	716 275	716 277	716 272	716 273	716 271	716 302	716 276
Light spot height (m)	8.4	8.5	8.4	8.5	6.3	6.3	8.4
Lamps	4 × 320W LED	4 × 320W LED	4 × 150W LED	4 × 150W LED	4 × 185W LED	1 × 400W LED	4 × 320W LED
LED voltage (V)	48	48	48	48	48	48	48
Light flux approx. [lm]	167300	167300	76500	76500	93000	50000	167300
Illumination range (m <sup>2</sup> )	4500	4500	2500	2500	2700	1000	4500
Light service life (hours)	> 50000	> 50000	> 50000	> 50000	> 50000	> 50000	> 50000
Mast's hub system	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Manual	Manual	Hydraulic
Mast rotation (°)	340	340	340	340	340	340	340
Maximum wind speed (km/h)	110	110	80	110	80	80	80
Operating temperature range (°C)	-5 / +40	-5 / +40	-5 / +40	-5 / +40	-	-	-
Engine	Kubota Z482	Kubota Z482	Yanmar L70N	Yanmar L70N	-	-	-
Construction type	2-cylinder, 4-stroke	2-cylinder, 4-stroke	1-cylinder, 4-stroke	1-cylinder, 4-stroke	-	-	-
Speed (rpm)	1500	1500	3000	3000	-	-	-
Engine output (PRP)	3.5 kW	3.5 kW	4.1 kW	4.1 kW	-	-	-
Cooling system	Water-cooled	Water-cooled	Air-cooled	Air-cooled	-	-	-
Fuel / tank capacity (l)	Diesel / 170	Diesel / 100	Diesel / 170	Diesel / 160	-	-	-
Running time (h)	283	180	707	665	-	-	-
Max. output kVA	3.8 / 3.5	3.8 / 3.5	5.0 / 4.0	5.0 / 4.0	-	-	-
Nominal voltage / Nominal current	230 V 1~ / 16 A 1~	230 V 1~ / 16 A 1~	230 V 1~ / 16 A 1~	230 V 1~ / 16 A 1~	-	-	-
Recharging time / Battery running time (h)	-	-	5 / 8	5 / 8	-	-	-
Insulation / Housing protection	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Maximum supported load (kg)	-	100	-	100	-	-	-
Permitted total weight (kg)	-	1300	-	1300	-	-	-
Sound power level LWA dB(A)	83	83	0-90	0-92	-	-	-
Sound pressure level LPA (7 m) dB(A)	58	58	0-65	0-67	-	-	-
Dimensions L × W × H (mm)	1790 × 1740 × 2420	2200 × 1400 × 2440	1790 × 1740 × 2420	3250 × 1400 × 2440	1230 × 780 × 2110	1230 × 780 × 2420	1790 × 1740 × 2420
Weight (kg)	980	980	1180	1230	248	220	996
Output socket	1 × CEE 230V / 16A	1 × CEE 230V / 16A	1 × CEE 230V / 16A	1 × CEE 230V / 16A	1 × CEE 230V / 16A	1 × CEE 230V / 16A	1 × CEE 230V / 16A
Towbar versions	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Height-adjustable towbar	-	716 279	-	-	-	-	-
Available accessories	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Astro timer	-	-	-	-	341 506	341 506	-
Digital timer	-	-	-	-	341 507	341 507	-
50 mm DIN towing eye	-	341 505	-	-	-	-	-
Preheating system	341 508	341 508	-	-	-	-	-
Insulation monitoring	341 509	341 509	-	-	-	-	-

(1) A short towbar is the standard fitting, also available with long and height-adjustable towbars.



## Engine pumps

520 - 1000 l / min

**ENDRESS** 



► EMP 305

ENDRESS engine pumps do their work reliably and economically wherever power is not available.



YAMAHA



Fresh water pumps



Wastewater pumps



Petrol

All Endress engine pumps are self-feeding suction pumps based on the centrifugal pump principle.

- High flow rates
- Premium seals
- Lack of oil automatic switch-off

# Engine pumps

500 - 1250 l / min



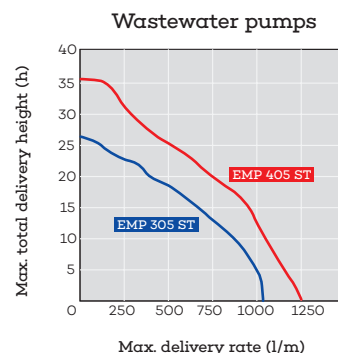
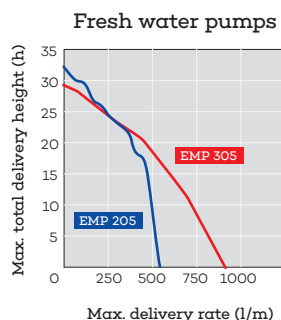
Engine pumps	Fresh water pumps		Wastewater pumps	
Model	EMP 205	EMP 305	EMP 305 ST	EMP 405 ST
Order No.	411 009	411 010	411 011	411 012
Max. delivery rate	500 l/min - 30 m³/h	883 l/min - 53 m³/h	933 l/min - 56 m³/h	1250 l/min - 75 m³/h
Max. suction lift (m)	7	7	7	7
Max. total delivery height (h)	30	30	25	35
Solids Ø (mm)	6	7	30	30
Connection S / D	2" / 2"	3" / 3"	3" / 3"	4" / 4"
Ash seal	Carbon ceramic	Carbon ceramic	Silicone carbide	Silicone carbide
Engine type	YAMAHA MZ 175	YAMAHA MZ 175	YAMAHA MZ 175	YAMAHA MZ 300
Construction type	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV	1-cylinder 4-stroke OHV
Displacement	171 cm³	171 cm³	192 cm³	296 cm³
Output at 3600 rpm	3.5 kW	3.5 kW	4.2 kW	7.0 kW
Fuel / tank capacity (litre)	Petrol / 4.5	Petrol / 4.5	Petrol / 4.5	Petrol / 5.8
Consumption / running time <sup>(1)</sup>	1.7 l / 2.7 h	1.9 l / 2.3 h	2.3 l / 2 h	3.3 l / 1.7 h
Starting system	Recoil starter	Recoil starter	Recoil starter	Recoil starter
Sound power level LWA	99 dB(A)	99 dB(A)	99 dB(A)	106 dB(A)
Sound pressure level (LPA)	74 dB(A)	74 dB(A)	74 dB(A)	81 dB(A)
Weight (kg)	24	25	36	55
Dimensions L × W × H (mm)	510×405×450	510×405×450	560×450×465	600×490×555
Possible areas of application	Pumping of clear or slightly dirty water		Pumping of waste water and other foreign matter up to a Ø of 30 mm	
Available accessories <sup>(2)</sup>	Order No.	Order No.	Order No.	Order No.
Suction hose (8 m)	38 410	38 407	38 407	38 412
Pressure hose (15 m)	38 411	38 408	38 408	38 415
Pressure hose extension (10 m)	38 414	38 409	38 409	38 416
Reducer coupling 3" to 2"	–	38 483	38 483	–

(1) Consumption/litres per hour, running time in hours. This data is based on approximate values at 75% load and therefore it is not binding

(2) Suction hose, pressure hose and pressure hose extension are equipped with quick-release couplings.

## Comprehensive equipment

- 3 hose clips
- 2 hose couplings
- 1 strainer
- 1 spark plug socket
- 1 × seal



All technical data and descriptions correspond to the information available at the time of printing and serve only as preliminary information. Before purchasing, please get your dealer's advice as to the suitability of the device desired. Endress generators and accessories are constantly under development. Endress therefore reserve the right to modifications in the interest of technical improvement. Technical data and illustrations are not binding. We assume no liability for misprints and errors. Power definitions as per ISO 8528-1: 2005.

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