ENDRESS®
Power Generators

ESE 110 IW/RS

Order No. **333365**

Main features	
Max. Output [LTP] [kVA/kw]	110/88
Prime power (PRP) [kVA/kW]	100/80
Nominal voltage [V]	400V/230V
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	144,3
Power factor cos (phi)	0,8
Main circuit breaker [Pole]	4
Shockproof sockets	CEE 400V / 63A CEE 400V / 32A CEE 400V / 16A CEE 230V / 16A 230V / 16A shockproof socket Terminal board

Measures and weight	
Dimensions L x W x H [mm]	2900 x 1090 x 1925
Weight in kg ca.	2000
Fuel tank capacity [l]	430

Autonomy	
Running time @ 75% PRP [h]	23,2

Noise level	
Sound power level LWA [db(A)]	94
Sound pressure level LPA (7 m) [db(A)]	69

Installation data	
Total air flow [m³/min]	96
Exhaust gas flow @ LTP [m³/min]	20,2
Exhaust gas temperature @ LTP [°C]	460
Maximum back pressure [kPa]	18

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www.endress-generators.de

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Motor	
Brand	FPT
Model	NEF45TE2F.S551
Emission regulation	3A
Nr. of cylinder and disposition	4
Cooling system	Water-cooled
Displacement [ccm]	4500
Mean piston speed [m/s]	6,6
Compression rate	17,5:1
Engine output (COP) [kW]	73
Engine output (PRP) [kW]	91
Engine output (LTP) [kW]	100
RPM [U/min]	1500
RPM regulation	electronic
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	100
> recommended cold cranking amps(without load / with load) [CC/	650
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	210,7
Oil capacity [L]	12,8
Coolant capacity [L]	18,5
Lube oil consumption @ PRP (max) [%]	<0.1
Starting engine capability [kW]	3

LTP - Limited Power in continuous service as ISO 8528-1:2005. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

PRP - Power in continuous service as ISO 8528-1:2005. It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24h of operation shall not exceed 70 % of the prime power.

COP - Base load (continuous) service as ISO 8528-1:2005. It is defined as being the maximum power which the generating set is capable of delivering continuously whilst supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation.

Ratings definition (ISO-8528)
ESP - Emergency Standby Power: It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

This CO2 measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine'.
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Generator	
Brand	MeccAlte ECP34-2S/4A
Alternator type	synchron
Insulation class	Klasse H
Voltage regulation	electronic
Protection Class [IP]	23
Poles	4
Frequency [Hz]	60
Frequency tolerance [%]	±1
Voltage tolerance [%]	1
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	93,8
Standard AVR	DSR
THD full load LL/LN [%]	1,8 / 1,9
THD no load LL/LN [%]	2,8 / 2,9
THF [%]	<2
Short Circuit Current Capacity [%]	>300

Equipment features
Soundproofed hood - extra quiet
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 tank for long running times
Outlet for external refuelling incl. a three-way fuel tap
Liquid collecting tray 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

Special equipment - not retrofittable	Order No.
RCD type B	342 037
Insulation monitoring	163 076
Potential-free contact	342 030
Twilight switch	342 032
Remote control panel	E135 961
Powerlock connector	342 034
1x 125 A socket	342 709
RCD type B	342 712

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Accessories	Order No.
Chassis ST rigid	**341 135**
Chassis HV height adjustable	**341 136**
Float switch (start/stop) 10m	342 033
Load transfer switch	**343 021R**
➔ E-RMA SIM	**342 220**
➔ E-RMA LAN	**342 221**
➔ E-RMA Websupervisor annual fee	**342 222**
Maintenance package 500 h	164 065

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