ENDRESS
Together, always on.

ESE 100 IW/RS

Order No. **335277**

Main features	
Max. Output [LTP] [kVA/kw]	104/83,2
Prime power (PRP) [kVA/kW]	94/75,2
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	135,8
Power factor cos (phi)	0,8
Shockproof sockets	1x CEE 400V / 63A 1x CEE 400V / 32A 1x CEE 400V / 16A 1x 230V / 16A Terminal board

Measures and weight	
Dimensions L x W x H [mm]	3440 x 1195 x 1961
Weight in kg ca.	2130
Fuel tank capacity [l]	420

Autonomy	
Running time @ 75% PRP [h]	27,1

Noise level	
Sound power level LWA [db(A)]	97
Sound pressure level LPA (7 m) [db(A)]	72

Installation data	
Total air flow [m³/min]	4,93
Exhaust gas flow @ PRP [m³/min]	14
Exhaust gas temperature	760
Maximum back pressure [kPa]	22

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www.endress-generator.com

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Motor	
Brand	FPT
Model	F36ETVP03.A94
Emission regulation	Stage V
Nr. of cylinder and disposition	4
Cooling system	Water-cooled
Displacement [ccm]	3600
Stroke [mm]	110
Bore [mm]	102
Compression rate	17:1,0
Engine output (COP) [kW]	83,4
Engine output (PRP) [kW]	85,5
Engine output (LTP) [kW]	94
RPM [U/min]	1500
RPM regulation	electronic
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	120
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	205
Oil capacity [L]	9,5
Coolant capacity [L]	5,5
Fuel consumption @ 75% PRP [L/h]	15,5
Fuel consumption @ 100% PRP [L/h]	21,1

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'.
laboratorio-olosuhteissa tehdyssä kiinteässä testisyklissä, eikä se ole tae yksittäisen moottorin suorituskyvystä".

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Generator	
Brand	MeccAlte ECP34-2S/4C
Insulation class	H
Voltage regulation	electronic
Protection Class [IP]	23
Poles	4
Frequency [Hz]	50
Frequency tolerance [%]	±1
Voltage tolerance [%]	1
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	92,5
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 V
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
Prepared for coolant pre-heating as standard
Main battery switch
Manual oil scavenger pump
Remote start connection
Diesel filter with water trap
Connection for a 230 V / 16 A battery charge
Hot engine parts protection
Document bag

Special equipment - not retrofittable	Order No.
Socket combination 2 with RCD Type B (incl. terminal board)	342 725
Socket combination 3 with RCD Type B (terminal board will be removed / incl. Insulation mor	342 036
Insulation monitoring	163 076
Powerlock connector	342 034
➔ E-RMA SIM remote monitoring	**342 220**
➔ E-RMA LAN remote monitoring	**342 221**
Special colour	auf Anfrage

Accessories	Order No.
Chassis ST rigid	351 116
Chassis HV height adjustable	351 117
Load transfer switch / E-US 160	**343 021R**
Maintenance package 500 h	auf Anfrage

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