



ENDRESS®

Power Generators

ESE 90 PW

Order No. **320245**

Main features

Emergency Standby Power (ESP) [kVA/kW]	89/71,2
Prime power (PRP) [kVA/kW]	80,8/64,6
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	117
Power factor cos (phi)	0,8
Main circuit breaker [Pole]	4

Measures and weight

Dimensions L x W x H [mm]	2000 x 1000 x 1480
Weight in kg ca.	968
Fuel tank capacity [l]	209

Installation data

Total air flow [m³/min]	109
Exhaust gas flow @ LTP [m³/min]	12,5
Exhaust gas temperature @ LTP [°C]	580

Technical data and illustrations are not binding. We assume no liability for misprints.

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www.endress-generators.de



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Motor	
Brand	FPT
Model	1104A-44TG2
Emission regulation	Non Emission Certified
Nr. of cylinder and disposition	4L
Cooling system	Water-cooled
Displacement [ccm]	4400
Engine output (ESP) [kW]	80,7
Engine output (PRP) [kW]	73,4
RPM [U/min]	1500
RPM regulation	mechanical
Starting system	Electric starter
Electric circuit [V]	12
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	213,6
Oil capacity [L]	8
Coolant capacity [L]	13
Lube oil consumption @ PRP (max) [%]	0,15
Fuel consumption @ 75% PRP [L/h]	13,92
Fuel consumption @ 100% PRP [L/h]	18,69

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 ECP32-2L4 C
Insulation class	H
Protection Class [IP]	23
Poles	4
Frequency [Hz]	50
Voltage tolerance [%]	1
Power factor cos (phi)	0,8
Efficiency @ 100% load [%]	90

Equipment features

Automatic control panel with digital control

Problem-free use, also in winter through use of a standard engine and coolant prewarming

Special equipment - not retrofittable

Order No.

Leak proof tray	auf Anfrage
Terminal board	auf Anfrage
Electronic Engine Governer	auf Anfrage
Manual oil pump	auf Anfrage
Winding Total Protection	auf Anfrage
Metal Fuel tank 300l	auf Anfrage
Metal Fuel tank 700l (incl. liquid collection tray)	auf Anfrage
Automatic fuel pump	auf Anfrage
Exhaust System (LWA reduction -15 dB(A) at exhaust gas expulsion point)	auf Anfrage
Exhaust System (LWA reduction -30 dB(A) at exhaust gas expulsion point)	auf Anfrage
Exhaust System (LWA reduction -37 dB(A) at exhaust gas expulsion point)	auf Anfrage
Flexible Exhaust Compensator	auf Anfrage
Exhaust Spark Arrestor	auf Anfrage
→ E-RMA SIM remote monitoring	342 228
→ E-RMA LAN remote monitoring	342 229

Accessories

Order No.

Load transfer switch	343 020
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