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Illustration similar

ENDRESS

Power Generators

ESE 1650 PW/AS CO

Order No. **87523079**

Main features

| | |
|------------------------------|-----------|
| Max. Output [LTP] [kVA/kW] | 1625/1300 |
| Prime power (PRP) [kVA/kW] | 1480/1184 |
| Nominal voltage [V] | 480/277 |
| Frequency [Hz] | 60 |
| Nominal current 3~ (PRP) [A] | 1954,58 |
| Power factor cos (phi) | 0,8 |
| Main circuit breaker [Pole] | 4 |

Measures and weight

| | |
|---------------------------|---------------------|
| Dimensions L x W x H [mm] | 12190 x 2438 x 2896 |
| Weight in kg ca. | 17074 |
| Fuel tank capacity [l] | 500 |

Autonomy

| | |
|----------------------------|-----|
| Running time @ 75% PRP [h] | 1,9 |
|----------------------------|-----|

Noise level

| | |
|--|-----|
| Sound power level LWA [db(A)] | 105 |
| Sound pressure level LPA (7 m) [db(A)] | 75 |

Installation data

| | |
|--|------|
| Total air flow [m ³ /min] | 114 |
| Exhaust gas flow @ LTP [m ³ /min] | 250 |
| Exhaust gas temperature @ LTP [°C] | 478 |
| Maximum back pressure [kPa] | 10,2 |

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

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| Motor | |
|---|------------------------|
| Brand | Perkins |
| Model | 4012-46TAG2A_60 |
| Emission regulation | Non Emission Certified |
| Nr. of cylinder and disposition | 12 |
| Cooling system | Water-cooled |
| Displacement [ccm] | 45842 |
| Compression rate | 13.0:1 |
| Engine output (COP) [kW] | 1065,6 |
| Engine output (PRP) [kW] | 1332 |
| Engine output (LTP) [kW] | 1495 |
| CO2 emissions [g / kWh] | k.A. |
| RPM [U/min] | 1800 |
| RPM regulation | electronic |
| Starting system | Electric starter |
| Electric circuit [V] | 24 |
| Battery [Ah] | 220 |
| Fuel | Diesel |
| Specific fuel consumption @ 75% PRP [g/kWh] | 213 |
| Oil capacity [L] | 177 |
| Coolant capacity [L] | 207 |
| Lube oil consumption @ PRP (max) [%] | 0,15 |
| Starting engine capability [kW] | 16,4 |

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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Order No. 87523079



Power Generators

| Generator | |
|------------------------------------|-------------------|
| Brand | MeccAlte ECO46-1S |
| 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 [%] | 96,6 |
| Standard AVR | DSR |
| THD full load LL/LN [%] | 3,3 / 3,2 |
| THD no load LL/LN [%] | 2,9 / 3,0 |
| THF [%] | <2 |
| Short Circuit Current Capacity [%] | >300 |

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