



ENDRESS

Power Generators

ESE 50 YW/RS

Order No. **333275**

Main features

Max. Output [LTP] [kVA/kW]	46,0/36,8
Prime power (PRP) [kVA/kW]	42.0/33.6
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	60,6
Power factor cos (phi)	0,8
Main circuit breaker [Pole]	3
Shockproof sockets	CEE 400V / 63A 1x CEE 400V / 32A 1x CEE 400V / 16A 1x CEE 230V / 16A 1x 230V / 16A shockproof socket 1x Terminal board

Measures and weight

Dimensions L x W x H [mm]	2300 x 950 x 1500
Weight in kg ca.	1146
Fuel tank capacity [l]	200

Autonomy

Running time @ 75% PRP [h]	24
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Noise level

Sound power level LWA [db(A)]	89
Sound pressure level LPA (7 m) [db(A)]	64

Installation data

Total air flow [m ³ /min]	45
Exhaust gas flow @ LTP [m ³ /min]	5,21
Exhaust gas temperature @ LTP [°C]	550
Maximum back pressure [kPa]	9,81

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

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Motor	
Brand	Yanmar
Model	4TNV98T-ZGGE
Emission regulation	3A
Nr. of cylinder and disposition	4L
Cooling system	Water-cooled
Displacement [ccm]	3319
Stroke [mm]	98 x 110
Mean piston speed [m/s]	5,5
Compression rate	18,1:1
Engine output (PRP) [kW]	38,2
Engine output (LTP) [kW]	41,9
CO2 emissions [g / kWh]	k.A. (Stage III)
CO2 test procedure	k.A. (Stage III)
RPM [U/min]	1500
RPM regulation	electronic
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	70
> recommended cold cranking amps(without load / with load) [CCA] 622 / 799	
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	232
Oil capacity [L]	11,2
Coolant capacity [L]	8
Lube oil consumption @ PRP (max) [%]	0,5
Starting engine capability [kW]	2,3

of the performance of a particular engine'.

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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'.

Generator	
Brand	MeccAlte ECO/P32-3S/4
Alternator type	synchron
Insulation class	Klasse H
Voltage regulation	electronic
Protection Class [IP]	21
Poles	4
Frequency [Hz]	50
Frequency tolerance [%]	5
Voltage tolerance [%]	1,5
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	89,1
Standard AVR	DSR
THD full load LL/LN [%]	4
THD no load LL/LN [%]	3,5
THF [%]	<2
Short Circuit Current Capacity [%]	>300

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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	342 036
Supplying power to a building IT/TN	342 232
Insulation monitoring	163 076
Potential-free contact	342 030
Twilight switch	342 032
ENDRESS Hybrid System EHS 4/11-R	342 231
Remote control panel	E135 961

Accessories
Order No.

Chassis ST rigid	341 127
Chassis HV height adjustable	341 125
Float switch (start/stop) 10m	342 033
Load transfer switch	343 018R
→ E-RMA SIM	342 220
→ E-RMA LAN	342 221
→ E-RMA Websupervisor annual fee	342 222
Maintenance package 500 h	164 026