ENDRESS®

Power Generators

ESE 20 YW/RS

Order No. **335272**

Main features	
Max. Output [LTP] [kVA/kw]	19.6/15.7
Prime power (PRP) [kVA/kW]	17.9/14.3
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	25,8
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]	2280x950x1200
Weight in kg ca.	985
Fuel tank capacity [l]	190

Autonomy	
Running time @ 75% PRP [h]	44,9

Noise level	
Sound power level LWA [db(A)]	96
Sound pressure level LPA (7 m) [db(A)]	71

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Motor	
Brand	YANMAR
Model	4TNV88-BIGE
Emission regulation	Stage V
Nr. of cylinder and disposition	4
Cooling system	Water-cooled
Displacement [ccm]	2190
Mean piston speed [m/s]	5,4
Compression rate	20,0:1
Engine output (COP) [kW]	17,2
Engine output (PRP) [kW]	17,2
Engine output (LTP) [kW]	18,5
RPM [U/min]	1500
RPM regulation	mechanical
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	60
> recommended cold cranking amps(without load / with load) [CCA]	n.a
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	n.a
Oil capacity [L]	7,4
Coolant capacity [L]	2,7
Starting engine capability [kW]	1,4
Fuel consumption @ 75% PRP [L/h]	4,2
Fuel consumption @ 100% PRP [L/h]	5,5

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 CO_2 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 ECP 28-M/4A
Alternator type	synchron
Insulation class	Klasse 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 [%]	87,8
Standard AVR	DSR
THD full load LL/LN [%]	2,0/2,0
THD no load LL/LN [%]	3,6/3,5
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
Problem-free use, also in winter through use of a standard engine and coolant prewarming
The main battery switch
Manual oil scavenger pump
Remote start connection
Diesel filter with water trap
Terminal board (Omission with socket combination 3)
Hot engine parts protection
Document bag

Special equipment - not retrofittable	Order No.
Socket combination 2 with RCD Type B (incl. terminal board)	auf Anfrage
Socket combination 3 with RCD Type B (terminal board will be removed / incl. Insu	342 036
Supplying power to a building IT/TN	342 232
Insulation monitoring	163 076
Potential-free contact	342 030
Twilight switch	342 032
Remote control panel	E135 961
➜ E-RMA SIM remote monitoring	**342 220**
➜ E-RMA LAN remote monitoring	**342 221**
Lastwiderstand / Dummy-Load	auf Anfrage
Special colour	auf Anfrage

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Accessories	Order No.
Chassis ST rigid	351 106
Chassis HV height adjustable	351 107
Float switch (start/stop) 10m	342 033
Load transfer switch	**343 016R**
Maintenance package 500 h	auf Anfrage

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

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