



## 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]	2290 x 990 x 1230
Weight in kg ca.	985
Fuel tank capacity [l]	190

### Autonomy

Running time @ 75% PRP [h]	44,9
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### Noise level

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

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

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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)	n.a
Fuel	Diesel
Specific fuel consumption @ 75% PRP [g/kWh]	232
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<sub>2</sub> 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	Mecc Alte ECO40 1L4 C
Alternator type	ECO40 1L4 C
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
YANMAR Stage V engines
Analog operating hours counter
Individually protected sockets
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
Hot engine parts protection
Document bag

### Special equipment - not retrofittable

### Order No.

Socket combination 2 with RCD Type B (incl. terminal board)	342 723
Socket combination 3 with RCD Type B (terminal board will be removed / incl. Insulation monitoring)	342 036
Insulation monitoring	163 076
→ E-RMA SIM remote monitoring	<b>342 220</b>
→ E-RMA LAN remote monitoring	<b>342 221</b>
Lastwiderstand / Dummy-Load	auf Anfrage
Special colour	auf Anfrage

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## ESE 20 YW/RS

Accessories	Order No.
Chassis ST rigid	351 106
Chassis HV height adjustable	351 107
Load transfer switch	<b>343 016R</b>
Maintenance package 500 h	auf Anfrage

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