



ESE 20 YW/RL IT/TN

Order No. **355290**

Main features

Max. Output [LTP] [kVA/kW]	19,2/15,4
Prime power (PRP) [kVA/kW]	18,3/14,6
Nominal voltage [V]	400/230
Frequency [Hz]	50
Nominal current 3~ (PRP) [A]	26
Power factor cos (phi)	0,8
Shockproof sockets	1x CEE 400V / 63A - IP67 - 1h 1x CEE 400V / 63A - IP67 1x CEE 400V / 32A - IP67 2x CEE 400V / 16A - IP67 3x 230V / 16A - IP68 1x 230V / 16A Charging socket

Measures and weight

Dimensions L x W x H [mm]	2230 x 1050 x 1313
Weight in kg ca.	812
Fuel tank capacity [l]	90

Autonomy

Running time @ 75% PRP [h]	21,2
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Noise level

Sound power level LWA [db(A)]	95
Sound pressure level LPA (7 m) [db(A)]	70

Installation data

Exhaust gas flow @ PRP [m ³ /min]	4
Exhaust gas temperature	470

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]	17,3
Engine output (PRP) [kW]	17,3
Engine output (LTP) [kW]	18,2
RPM [U/min]	1500
RPM regulation	Mechanical
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	60
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]	4,23
Fuel consumption @ 100% PRP [L/h]	5,46

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'.

laboratorio-olosuhteissa tehdystä kiinteässä testisyklissä, eikä se ole tae yksittäisen moottorin suorituskyvystä".

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

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Generator

Brand	MeccAlte ECP 28-M/4C
Alternator type	ECP 28-M/4C
Insulation class	H
Voltage regulation	electrical
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	DER1
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

YANMAR Stage V engines
Electronically controlled alternator with three phase sensing AVR
Soundproofed hood - extra quiet
Manual/Automatic instrument panel in IP 54
Galvanised hood for increased corrosion protection
Accessible from all sides through large maintenance doors
Analog operating hours counter
Individually protected sockets
Large tank for long running times
Outlet for external refuelling incl. a three-way fuel tap
Prepared for coolant pre-heating as standard
Prepared for access to the aggregate via smartphone, PC & tablet
Main battery switch
Manual oil scavenger pump
Diesel filter with water trap
Liquid collection tray to protect the environment - with manual suction pump
Insulation monitoring
Tank filler necks on both sides with pre-filter and analog fuel gauge
Including IT/TN operating changeover according to DIN/TS 14684
Door retainer
Control panel and socket lighting
Charging process indicator
Holder for earth rod
Integral battery charger incl. 230 V /16 A socket
Wide range of optional extras available

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Special equipment - not retrofittable	Order No.
Chassis ST rigid	351 104
Chassis HV height adjustable	351 105
Voltage transformer for chassis with height-adjustable drawbar	341 144
Lateral storage boxes incl. chassis widening	342 510
Chassis extension incl. XXL storage boxes	auf Anfrage
Extension of the chassis approval from 80 km/h to 100km/h	341 138
Bracket for traffic cone on the chassis	auf Anfrage
6 kg ABC fire extinguisher incl. Holder	342 509
Fire extinguisher 5kg CO ² incl. protection box	342 508
Dummy-Load	342 507
RCD type B	auf Anfrage
Powerlock connector	auf Anfrage
Rear warning system	342 506
Rear warning system removable	342 513
Ambient lighting, LED	342 504
Engine bay lighting	342 514
MELF Box charging receptacle 230V 16A	162 297
MELF Box connecting cable	162 296
Charging current socket Rettbox	163 037
Hand pump mast, D=80mm, H: ca.6m with sockets, Head load 24kg	162 298
External start Nato socket	162 056
Lockable weather protection door incl. cable entry at the bottom	auf Anfrage
Remote start device HARTING	auf Anfrage
Special colour	auf Anfrage
Folding mast 3.3m incl. LED lights with 180,000 lm	342 533
Accessories	Order No.
→ E-RMA SIM remote monitoring	342 228
CEE Feed-in cable IT/TN 1h plug -> 1h coupling - CEE 400V / 63A 5m	343 038
CEE Feed-in cable IT/TN 1h plug -> 1h coupling - CEE 400V / 63A 10m	343 037
Refueling set - 2x10m hose (supply/return) incl. connection to the 3-way fuel valve	162 052

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