



# ENDRESS

## Power Generators

### ESE 20 YW/RS

Order No. **333271**

#### Main features

Max. Output [LTP] [kVA/kW]	19,6/15,7
Continuous 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
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 Klemmleiste

#### Measures and weight

Dimensions L x W x H [mm]	2300 x 950 x 1500
Weight in kg ca.	949
Fuel tank capacity [l]	200

#### Autonomy

Running time @ 75% PRP [h]	45,8
----------------------------	------

#### Noise level

Sound power level LWA [db(A)]	92
Sound pressure level LPA (7 m) [db(A)]	67

#### Installation data

Total air flow [m <sup>3</sup> /min]	56,28
Exhaust gas flow @ LTP [m <sup>3</sup> /min]	3,6
Exhaust gas temperature @ LTP [°C]	470
Maximum back pressure [kPa]	12,75

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

2020-8-10

**ENDRESS Elektrogerätebau GmbH**  
Neckartenzlinger Str. 39  
D - 72658 Bempflingen, Germany

Phone.: +49 (0) 7123-9737-0  
Fax.: +49 (0) 7123-9737-50  
www.endress-generators.de



Motor	
Brand	Yanmar
Model	4TNV88-GGE-50
Emission regulation	3A
Nr. of cylinder and disposition	4
Cooling system	Water-cooled
Displacement [ccm]	2190
Bore x Stroke [mm]	88 x 90
Mean piston speed [m/s]	5,4
Compression rate	19,1:1
Engine output (PRP) [kW]	16,4
Engine output (LTP) [kW]	18,0
CO2 emissions [g / kWh]	k.A. (Stage III)
CO2 test procedure	k.A. (Stage III)
RPM [U/min]	1500
RPM regulation	mechanical
Starting system	Electric starter
Electric circuit [V]	12
Battery [Ah]	70
> 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
Lube oil consumption @ PRP (max) [%]	N.A
Starting engine capability [kW]	1,4
Fuel consumption @ 75% PRP [L/h]	4,37

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.

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'.

garantía alguna ni implícita ni expresa del rendimiento de un motor concreto.

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

2020-8-10

ESE 20 YW/RS

Order No. 333271

**Generator**

Brand	MeccAlte
Alternator type	synchron
Model	ECP28-M/4
Insulation class	Klasse H
Voltage regulation	electronic
Protection Class [IP]	23
Poles	4
Frequency [Hz]	50
Frequency tolerance [%]	5
Voltage tolerance [%]	1,0
Power factor cos (phi)	0,8
Efficiency @ 75% load [%]	87,8
Standard AVR	DSR
THD full load LL/LN [%]	2
THD no load LL/LN [%]	3,6
THF [%]	<2
Short Circuit Current Capacity [%]	>300

**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.
Insulation monitoring	163 076
Potential-free contact	342 030
Twilight switch	342 032
ENDRESS Hybrid System EHS 4/11-R	342 231
Supplying power to a building IT/TN	342 232
Remote control panel	E135 961
Universal current sensitive FI circuit breaker Type B	342 035

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

2020-8-10

**ENDRESS Elektrogerätebau GmbH**  
Neckartenzlinger Str. 39  
D - 72658 Bempflingen, Germany

Phone.: +49 (0) 7123-9737-0  
Fax.: +49 (0) 7123-9737-50  
www.endress-generators.de



Accessories	Order No.
Chassis ST rigid	<b>341 127</b>
Chassis HV height adjustable	<b>341 125</b>
Float switch (start/stop) 10m	342 033
Load transfer switch	<b>343 016R</b>
→ E-RMA SIM	<b>342 220</b>
→ E-RMA LAN	<b>342 221</b>
→ E-RMA Websupervisor annual fee	<b>342 222</b>
Maintenance package 500 h	<b>164 023</b>