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**ENDRESS** ®  
**Power Generators**

**ESE 20 YW/MS**

Order No. **355220**

#### Main features

|                                        |           |
|----------------------------------------|-----------|
| Emergency Standby Power (ESP) [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       |
| Main circuit breaker [Pole]            | 4         |

#### Measures and weight

|                           |                    |
|---------------------------|--------------------|
| Dimensions L x W x H [mm] | 2200 x 1020 x 1313 |
| Weight in kg ca.          | 705                |
| Fuel tank capacity [l]    | 80                 |

#### Autonomy

|                            |      |
|----------------------------|------|
| Running time @ 75% PRP [h] | 21,7 |
|----------------------------|------|

#### Noise level

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

#### Installation data

|                                 |     |
|---------------------------------|-----|
| Total air flow [m³/min]         | 58  |
| Exhaust gas flow @ PRP [m³/min] | 3,6 |
| Exhaust gas temperature         | 470 |

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

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| Motor                                       |                  |
|---------------------------------------------|------------------|
| Brand                                       | YANMAR           |
| Model                                       | 4TNV88-BIPGE     |
| Emission regulation                         | Stage V          |
| Nr. of cylinder and disposition             | 4L               |
| Cooling system                              | Water-cooled     |
| Displacement [ccm]                          | 2190             |
| Engine output (ESP) [kW]                    | 18,2             |
| Engine output (PRP) [kW]                    | 17,3             |
| RPM [U/min]                                 | 1500             |
| RPM regulation                              | mechanical       |
| Starting system                             | Electric starter |
| Electric circuit [V]                        | 12               |
| Fuel                                        | Diesel           |
| Specific fuel consumption @ 75% PRP [g/kWh] | 240              |
| Oil capacity [L]                            | 7,4              |
| Coolant capacity [L]                        | 2,7              |
| Fuel consumption @ 75% PRP [L/h]            | 3,69             |
| Fuel consumption @ 100% PRP [L/h]           | 5,16             |

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'.

performances d'un moteur particulier.»

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**Generator**

|                            |                     |
|----------------------------|---------------------|
| Brand                      | MeccAlte ECP28 M4 C |
| Alternator type            | ECP28 M4 C          |
| Insulation class           | H                   |
| Protection Class [IP]      | 23                  |
| Poles                      | 4                   |
| Frequency [Hz]             | 50                  |
| Power factor cos (phi)     | 0,8                 |
| Efficiency @ 100% load [%] | 88,2                |

**Equipment features**

Automatic control panel with digital control  
 Diesel filter with water trap  
 Crane loading lug  
 Main battery switch  
 Hot engine parts protection  
 Manual oil scavenger pump  
 Liquid collecting tray to protect the environment

**Special equipment - not retrofittable****Order No.**

|                                                                                                   |             |
|---------------------------------------------------------------------------------------------------|-------------|
| Socket combination 1 with RCD Type A (incl. terminal board)                                       | auf Anfrage |
| Socket combination 2 with RCD Type B (incl. terminal board)                                       | auf Anfrage |
| Socket combination 3 with RCD Type B (terminal board not available / incl. Insulation monitoring) | auf Anfrage |
| Insulation monitoring                                                                             | 163 076     |
| Terminal board (not available with socket combination 3)                                          | auf Anfrage |
| Powerlock connector 400A (not available with socket combination 1-3)                              | auf Anfrage |
| Remote start device                                                                               | auf Anfrage |
| → E-RMA SIM remote monitoring                                                                     | 342 228     |
| → E-RMA LAN remote monitoring                                                                     | 342 229     |
| Coolant pre-heating                                                                               | auf Anfrage |
| Large fuel tank 24h at a 75% load (incl. leak proof tray)                                         | auf Anfrage |
| 3-way fuel valve                                                                                  | auf Anfrage |
| Three way fuel valve incl. Quick Fuel Connector                                                   | auf Anfrage |
| Extra Silent Enclosure                                                                            | auf Anfrage |
| Special colour                                                                                    | auf Anfrage |

**Accessories****Order No.**

|                                                        |                |
|--------------------------------------------------------|----------------|
| Load transfer switch / E-US 40                         | <b>343 016</b> |
| Chassis ST rigid                                       | <b>341 102</b> |
| Chassis HV height adjustable                           | <b>341 103</b> |
| Galvanized base frame with integrated forklift pockets | auf Anfrage    |
| Dummy-Load                                             | auf Anfrage    |