



**Model:  
ESE 13 MP**

 Water Cooling

 50 Hz

 Monophase

 Diesel

**13  
11.5 kVA**

**13  
11.5 kW**

DIESEL GENERATOR ESE 13 MP	STANDBY POWER (ESP)	PRIME POWER (PRP)
Power (kVA)	13	11.5
Power (kW)	13	11.5
Speed (rpm)	1500	
Standard voltage (V)	400 / 230	
Power factor (cos phi)	1	
Amperage (Amp)	46	

**Endress Group Romania S.R.L. certifications:**  
ISO 9001: 2008, ISO 14001: 2005, ISO 18001 : 2008.



**ZENESSIS generators are CE compliant, and are tested according to the EU legislation on noise levels 2000/14 / EC.**

Reference ambient conditions: 1000 mbar; 25° C; 30% relative humidity; power according to ISO 3046 / ISO 8528 standards.

#### **Prime power (PRP) – ISO 8528**

Prime power (PRP) – represents the continuous power a generator is able to provide continuously while supplying a variable electrical load when operating for an unlimited number of hours per year, under the agreed operating conditions, maintenance intervals and procedures being performed as prescribed by the manufacturer.

#### **Standby Power (ESP) – ISO 8528**

Standby Power (ESP) is the maximum power available at a variable load, under the operating conditions provided, that a generator is able to provide in case of power failure or under test conditions, maintenance intervals and procedures being performed as prescribed by the manufacturer.

#### **Endress Group Romania S.R.L.**

##### **Offices:**

Bucharest: km 16 A1 – Ciorogarla, Sos. Bucuresti, Nr. 108

##### **Production:**

Germany, Grafenberg, Werner von Siemens Str. 3

Romania, Bocsă, Str. Medresului, Nr. 17, Caras-Severin County

**1. DIESEL ENGINE**

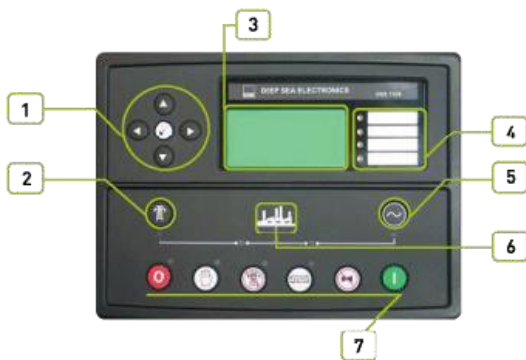
ENGINE SPECIFICATIONS	
Type	Perkins
Model	403A – 15G1
No. of cylinders & arrangement	3 – in line
Suction & cooling	Natural
Maximum standby power (kW / HP)	13,5 / 18,1
Speed (rpm)	1500
Displacement (l)	1,496
Inner diameter & stroke (mm)	84 X 90
Compression factor	22,5 : 1
Regulator	Mechanic
Oil capacity (l)	6
Coolant capacity (l)	6
Starting system (V.d.c.)	12
100% load fuel consumption (l / h)	3,67

**2. ALTERNATOR**

SPECIFICATII ALTERNATOR	
Model	MeccAlte ECP 28-M/4
Frequency (Hz)	50
Concept	Brushless, with a single bearing,
Phases	3
Voltage (V)	400 / 230
Insulation class	H
Protection class	IP23
Excitation system	Self-excited

**3. DSE 7320 / ComAp AMF 25 CONTROL SYSTEM**

Run the generators, and the operating parameters control, both in automatic and in manual mode. Equipped with LCD screen, which can be monitored by a PC.



1. Menu navigation buttons
2. Stop button
3. Main status & instrumentation display
4. Alarm LEDs
5. Generator stop button
6. Status LEDs
7. Operation selection buttons

Communication sockets: RS 232, RS 485 or Ethernet and SMS

**□ Devices**

Command and control panel mounted in a metal box with IP 54, mounted inside the generator, provided with a window for viewing from the outside, fitted with:

- DSE 7320 command module
- Static battery charger
- Emergency stop button & circuit control fuses

**□ Parameters displayed:**

**Engine:** engine speed; oil pressure; coolant temperature; running time; battery voltage; must perform engine maintenance;

**Generator:** voltage (L – L, L – N); current (L1 – L2 – L3); frequency; grounding current; kW; Pf; kVA; kWh, kVAh, kVarh; phase sequence.

**Main network:** voltage (L – L, L – N); frequency.

**□ Circuit protection**

**Warnings:** charging failure; battery under voltage; stop failure; low fuel level indicator – optional; overload kW; negative phase sequence.

**Pre-alarms:** low oil pressure; engine high temperature; engine low temperature; under / over speed; generator under / over frequency; generator under / overvoltage; ECU warning.

**Stops:** startup failure; emergency stop; low oil pressure; engine high temperature; low coolant level; under / over speed; generator under / over frequency; generator under / overvoltage; oil pressure sensor open; phase reversal.

**Electric shock:** grounding; overload kW; generator over current; negative phase sequence.

**□ Standards: Electrical safety / EMC**

BS EN 60950; BS EN 60950 – 6 – 2 EMC; BS EN 61000 – 6 – 4 EMC.

**4. HOUSING**

- Made of powder-coated galvanized steel, soundproofed, waterproofed. It has modular design with interior access doors. The silencer is residential, mounted in the housing and ensures noise levels in accordance with Directive 2000/14/EC. Access doors are equipped with locks.

1. Steel structure, fuel tank included; the housing is made of powder-coated galvanized steel, soundproofed

2. Emergency stop button

3. The control panel is mounted on the chassis; located to the right of the generator

4. Corrosion-resistant locks & hinges

5. The oil can be evacuated by means of a valve and a hose

6. Exhaust system inside the chassis

7. Large access doors for easy maintenance

8. In the front & back – large access doors for easy maintenance

9. Chassis – fuel tank

10. Lifting points by crane

11. Access to the radiator cap – on the housing cover

12. Noise mitigating materials / soundproofing

13. Air intake / exhaust grills



**5. STANDARD FEATURES**

- ◆ Command & control panel with measurement & metal control devices, protection class IP54
- ◆ Static battery charger
- ◆ Dynamic battery charging alternator
- ◆ Controlled thermostat heater for coolant
- ◆ Oversized start battery
- ◆ Emergency stop button
- ◆ Chassis with fuel tank sized for 8hrs of autonomy
- ◆ Vibration dampers
- ◆ Fuel level measuring device
- ◆ Electrical lines protected with tubing & gland
- ◆ Residential silencer
- ◆ Protection for hot components

**6. SIZE & WEIGHT**

Opened generator sizes & weight	
Sizes (length x width x height) (mm)	1.300 x 700 x 1.200
Dry weight (kg)	410
Fuel tank capacity (liters)	100

Closed generator sizes & weight	
Sizes (length x width x height) (mm)	1.880 x 860 x 1.100
Dry weight (kg)	540
Fuel tank capacity (liters)	100

**7. OPTIONAL FEATURES**

- ◆ Electrical panel anti-condensation heating system
- ◆ Fuel / oil heating system
- ◆ Coolant heating circulation pump
- ◆ Oil drain pump
- ◆ Remote monitoring & control system
- ◆ AAR load transfer panel, 3/4 poles, electromechanical or motorized
- ◆ CB protection switch, 3/4 poles, electromechanical or motorized
- ◆ Bypass panel – ENDRESS patented invention– OSIM patent 0010/2012
- ◆ Remote radiator
- ◆ Trailer
- ◆ Increased tank for 12 or 24hrs autonomy
- ◆ External tank with transfer pump
- ◆ Command module synchronized with the network or several generators
- ◆ Over-soundproofed housing, 65 dB at 7 m



*Made in Germany – Assembled in Romania*



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