

#### **POWER SOLUTIONS**

# Model: ESE 12 DWI



Water cooling



50 Hz





Three-phase





DIESEL GENERATOR ESE 12 DWI	STANDBY POWER (ESP)	PRIME POWER (PRP)
Power (kVA)	11,6	10,6
Power (kW)	9,2	8,5
Speed (rpm)	1:	500
Standard voltage (V)	400	/ 230
Power factor (cos phi)		0,8
Amperage (Amp)	1	5,3

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

**DeWerk** 

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

# **Powerful Equipment**

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:

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**Production:** 

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





# **POWER SOLUTIONS**

# 1. DIESEL ENGINE

SPECIFICATII MOTOR	
Туре	DEWERK
Model	DWX14
No. of cylinders & arrangement	3 – in line
Suction & cooling	Natural
Maximum standby power (kW)	13,2
Speed (rpm)	1500
Displacement (I)	1,400
Inner diameter & stroke (mm)	80 x 90
Compression factor	18:1
Regulator	Mechanical
Oil capacity (liters)	4,5
Coolant capacity (I)	7,0
Intake air flow (m³ / min.)	1,6
Air cooling radiator (m³ / min.)	80
Start System (V.d.c.)	12
100% load fuel consumption (I / h)	3,40

# 2. ALTERNATOR

ALTERNATOR SPECIFICATIONS	
Model	AFA
Frequency (Hz)	50
Power (kVA)	11
Concept	Brushless, 4 poles
Cos phi	0,8
Phases	3
Voltage (V)	400 / 230
Izolation class	Н
Excitation system	Electronic ( AVR )

# 3. CONTROL SYSTEM DSE 6020

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. Led display screen
- 2. Menu navigation buttons
- 3. Information button
- 4. Common alarm indicator
- 5. Status LEDs
- 6. Function selection buttons:
  - Manual
  - Automat
  - Start
  - Stop







#### **SOLUTII ENERGETICE**

#### □ 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 6020 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; kVAr;

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

- 1. Emergency stop button
- 2. Viewing window
- 3. Automation panel
- 4. Space cable access
- 5. Circuit breaker (CB)
- 6. Warm air intake grills
- 7. Acces doors.
- 8. Sled type chassis with lifting eyelets
- 9. Locks
- 10. Eyelets lifting crane
- 11. Air intake / exhaust grills
- 12. Space manipulation with forklift
- 13. Flue gas exhaust







## **SOLUTII ENERGETICE**

# **5. STANDARD FEATURES**

Command & control panel with measurement		Chassis with fuel tank sized for8hrs of
&metal control devices, protection class IP54		autonomy
Static battery charger	П	Vibration dampers
Dynamic battery charging alternator	П	Fuel level measuring device
Controlled thermostat heater for coolant		Electrical lines protected with tubing &gland
Oversized start battery		,
Emergency stop buttonButon oprire urgenta		Residential silencer
5 , 1 1 9		Protection for hot components

## 6. SIZE & WEIGHT

Opened generator sizes & weight	
Dimensions (length x width x height) (mm)	1 400 x 760 x 927
Dry weight (kg)	350
Fuel tank capacity (liters)	32

Closed generator sizes & weight	
Dimensions (length x width x height) (mm)	1 522 x 823 x 1 127
Dry weight (kg)	470
Fuel tank capacity (liters)	32

# 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
<b>♦</b>	Bypass panel – ENDRESS patented invention– OSIM
	patent 0010/2012
	Remote radiator
П	Air filters tropical use





□ Trailer





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