

Product: **ZEN 750 TDH**







Liquid cooling



50 Hz



Three-phase



Diesel







DIESEL GENERATOR ZEN 750 TDH	STANDBY POWER (ESP)	PRIME POWER (PRP)
Power (kVA)	750	675
Power (kW)	600	540
Speed (rpm)	1500	
Voltage (V)	400 / 230	
Power factor (cos phi)	<i>p</i> 0.	8
Amperage (Amp)	97	79

Endress Zenessis Group 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 Zenessis Group S.R.L.

Offices:

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

D38486 Apenburg - Winterfeld, In Altensalzwedel 49

Production:

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





1. DIESEL ENGINE

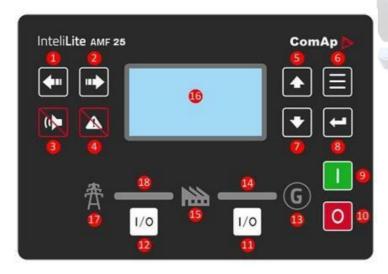
ENGINE SPECIFICATIONS	
Туре	HYUNDAI
Model	DP222LB
No. of cylinders & arrangement	12 in V
Injection system	Turbocharged & Intercooler
Cooling system	Water cooling
Standby power (kWm)	664
Speer (rpm)	1500
Displacement (I)	21,93
Bore & Stroke (mm)	128 x 142
Compression factor	15 : 1
Regulator	Electric
Total oil capacity (I)	40
Coolant capacity of engine (I)	114
Fuel consumption at 100% load in prime mode (I / h)	147,1

2. ALTERNATOR

ALTERNATOR SPECIFICATIONS	Strathon / Leroy Somer
Model	ECO 750 KW / TAL 0473 F
Frequency (Hz)	50
Concept	Brushless, 4 poles
Phases	3 + n
Voltage(V)	400 / 230
Protection class	Н
Excitation system	Electronic
Performance	93%
Protection	IP23
Certification test	EN 10204 : 2001

3. CONTROL PANEL

Made in metal box, IP54 degree, with lock. The control panel is equipped with the ComAp AMF25 control module, with the possibility of starting and stopping the generator, both in automatic and in electric mode. The control panel monitors the power grid and can command and control the ATS panel (automatic transfer switch).



- 1. Left button
- 2. Right button
- 3. **HORN RESET** button
- 4. FAULT RESET button
- 5. **UP** button
- 6. PAGE button
- 7. **DOWN** button
- 8. **ENTER** button
- 9. **START** button
- 9. START DULLOTT
- 10. **STOP** button
- 11. GCB button. Works in MAN and TEST modes only
- 12. MCB button. Works in MAN and TEST modes only
- 13. **GENERATOR** status indicator
- 14. **GCB ON**. Green LEDs are on if GCB is closed and Gen-set is healthy.
- 15. **LOAD**
- 16. Graphic B/W display, 132x64 pixels
- 17. MAINS status indicator
- 18. **MCB ON**. Green LEDs are on if MCB is closed and Mains is healthy



♦ Control panel standard specifications:

The command and control panel is mounted inside the casing, in a metal box with IP 54, equipped with a viewing glass, equipped with:

- ComAp AMF 25 command module
- Static battery charger
- Emergency stop button & circuit breaker fuses
- Overcurrent differential protection
- Protection relays

Configuration:

- 1. ComAp AMF 25 command module
- 2. Circuit Breaker protection
- 3. Locks
- 4. Alarm
- 5. START button ON/OFF
- 6. Hinges
- 7. Maintenance schedule
- 8. Metal box

♦ Command module standard specifications:

- Microprocessor control
- 132 x 64 pixel LCD display
- Programming on front panel as well as through PC software
- Control buttons and soft touch navigation
- Remote communication via USB or with optional modules via RS232, RS485, Ethernet or SMS
- Store 350 events with date and time
- Maintenance programming 3 levels
- Engine heater control Optional

• Displays:

Engine: engine speed; oil pressure; coolant temperature; running time; battery voltage; maintenance data.

Alternator: voltage (L - L, L - N); current (L1 - L2 - L3); frequency; kW; Pf; kVAr; kWh,kVAh, kVarh; phase sequence.

Main network: voltage (L - L, L - N); frequency, mains ready; mains off; generator set ready, generator set disconnected, active power kW, apparent power kVA, reactive power kVA r, power factor, phase sequence.

- Warning: battery faulty charging, low battery voltage, fail to stop, low fuel level, overload, phase reversing, speed sensor failure.
- Alarms: low oil pressure, high engine temperature, under / over voltage, under / overfrequency, under / overvoltage, ECU fault -optional.
- Status displays: missed start, emergency stop, low oil pressure, high engine temperature, under / overspeed, under / overfrequency, under / overvoltage, oil sensor, phase rotation, overload, overcurrent group, phase reversal.
- ♦ Static battery charger: Made with TSD technology, with high efficiency. Protected for short-circuit currents, it can be used as a current source, input voltage 196-264 V, output voltage 27.6 V / 5A or 13.8 V / 5A.

♦ Standards:

Electrical safety / EMC, BS EN 60950; BS EN 60950 – 6 – 2 EMC; BS EN 61000 – 6 – 4 EMC.

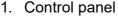




ENERGY SOLUTIONS

4. CANOPY

Made of zinc plate steel, painted in electrostatic field, soundproofed, fire protect. It is modularly designed with in-door access doors on all sides of the generator. The exhaust pan is residential type, mounted inside the casing. The carcasses are designed to optimize the cooling of the engine and alternator assembly, and can be mounted outdoors, providing protection against weathering and low noise levels

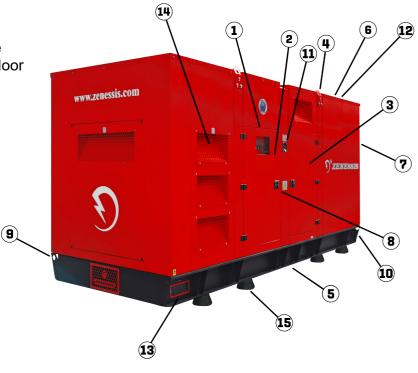


2. Access door for control module

3. Engine and alternator access door

4. Points for crane lifting

- 5. Retention tray
- 6. Radiator cap
- 7. Hot air outlet grills
- 8. Handles provided with locks
- 9. Lifting/pulling holes
- 10. Base frame
- 11. Emergency button
- 12. Exhaust Gas Valve
- 13. Cable access space
- 14. Air intake grills
- 15. Rubber legs



5. DIMENSIONS & WEIGHTS

Opened generator sizes & weight	
Sizes (length x width x height) (mm)	4400 x 1650 x 2750
Weight (kg)	3690
Fuel tank capacity (liters)	1200
Noise level (from distance of 7m)	85 db
Closed generator sizes & weight	
Sizes (length x width x height) (mm)	5000 x 2000 x 2600
Weight (kg)	4800
Fuel tank capacity (liters)	1200
Noise level (from distance of 7m)	72 db

6. STANDARD FEATURES

Control & comand panel with indicators and measuring devices, IP 54 protection

Stating charger for charger

Dinamic alternator for battery charging



Thermostatic heater for cooling liquid



Emergency stop button

Oversized starting battery





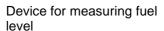




ENERGY SOLUTIONS

Chassis with fuel tank dimensioned for an 8 hour autonomy with retention tray

Vibration dampers



Electric lines protected by tubing and seal

Residential exhaust pipe



Rubber legs



Metal hinges





Access doors provided with locks





Syster with cr



System for manipulation with crane or forklift





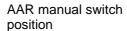
Fireproof antiphonic pillow



7. OPTIONAL FEATURES

Anti-condensation embedding system for electric panels

Heating system for fuel/oil



Oil evacuation pump

Motorized AAR, patented invention ENDRESS-Patent OSIM 00048/2015

AAR Transfer panel for 3/4 poles

3/4 poles differential protection

Sockets 400V/ 230V

Circulation pump for heating cooling liquid



Liquid retention tray + fuel tank with double wall



Liquid leak detection sensor



Remote monitoring & control system



Exterior fuel filler cap with lock



Pocket system integrated in the chassis for lifting with forklift



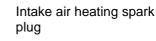
Fire extinguisher with internal housing support



Super soundproof housing



PowerLock force connectors with phase reversal interlock system

















BOCSA,str. Medresului 17, Tel.: 0040.255.227.825; Fax: 0040.255.227.828 . BUCURESTI: km 16 A1 – Ciorogarla, Sos. Bucuresti, Nr. 108; Tel.: 0040.21.350.09.95; Fax: 0040.31.817.66.08. E-mail: office@endress-group.ro; Web: www.endress-group.ro



ENERGY SOLUTIONS

Fuel filter with water detection

Bypass panel-petented invention ENDRESS-Patent OSIM 00010/ 2012

Auto trailer

Remote control start

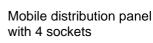
Lack of grounding protection

Interior lighting with switches operated at door opening



Grounding electrodes

Fuel transfer automatic pump

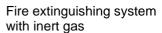




Cable reel



Fire detector with automatic shutdown generator set

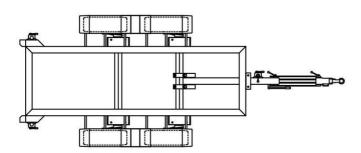




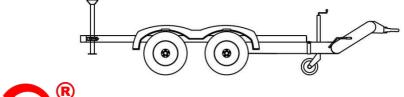


Optional: RAR homologated auto trailer

Model: EGR 8000











Created in Germany – Assembled in Romania Warranty: 36 months or 2000 operating hours

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