

**Product:**  
**ZEN 275TBIA** **MOTEURS**  
**Baudouin****Liquid cooling****50 Hz****Three-phase****Diesel**

DIESEL GENERATOR ZEN 275 TBIA	STANDBY POWER (ESP)	PRIME POWER (PRP)
Power (kVA)	275	247
Power (kW)	220	198
Speed (rpm)	1500	
Voltage (V)	400 / 230	
Power factor (cos phi)	0,8	
Amperage (Amp)	359	

**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:**

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D38486 Apenburg - Winterfeld, In Altensalzwedel 49

**Production:**

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

## 1. DIESEL ENGINE

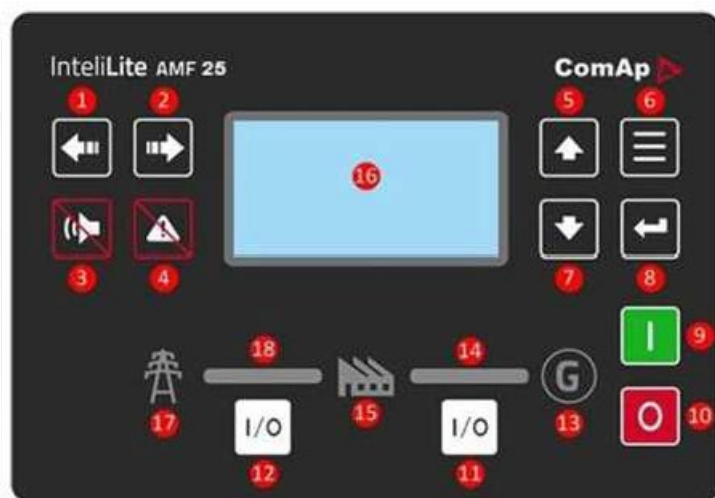
ENGINE SPECIFICATIONS	
Type	BAUDOUIN STAGE III
Model	6M12G8D3
No. of cylinders & arrangement	4 in line
Induction system	Direct, Turbocharged and Intercooled
Cooling system	Liquid cooling
Standby power (kWm)	264
Speed (rpm)	1500
Displacement (l)	7.47
Bore & Stroke (mm)	108 x 136
Compression factor	17.5:1
Regulator	ECU
Total oil capacity (l)	28
Coolant capacity of engine (l)	29.56
Fuel consumption at 100% load in prime mode (l / h)	62.1

## 2. ALTERNATOR

ALTERNATOR SPECIFICATIONS		Strathon / Leroy Somer
Model		ECO 280 KW / TAL046 D
Frequency (Hz)		50
Concept		Brushless, 4 poles
Phases		3 + n
Voltage (V)		400 / 230
Protection class		H
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
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; kVA; 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:

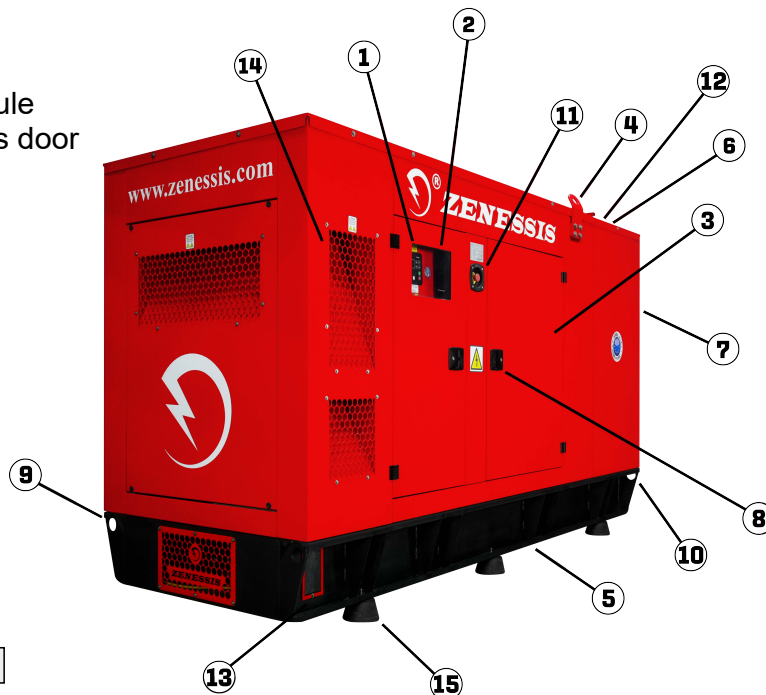
Electrical safety / EMC, BS EN 60950; BS EN 60950 – 6 – 2 EMC; BS EN 61000 – 6 – 4 EMC.



### 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

1. Control panel
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 & WEIGHT

Opened generator sizes & weight	
Sizes (length x width x height) (mm)	3500 x 1270 x 2400
Weight (kg)	2200
Fuel tank capacity (liters)	350
Noise level (from distance of 7m)	82 db
Closed generator sizes & weight	
Sizes (length x width x height) (mm)	3700 x 1400 x 2100
Weight (kg)	2900
Fuel tank capacity (liters)	350
Noise level (from distance of 7m)	70 db

### 6. STANDARD FEATURES

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



Thermostatic heater for cooling liquid



Stating charger for charger



Oversized starting battery



Dinamic alternator for battery charging



Emergency stop button



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

Vibration dampers

Device for measuring fuel level

Electric lines protected by tubing and seal

Residential exhaust pipe



Rubber legs

Metal hinges

Access doors provided with locks

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

Circulation pump for heating cooling liquid

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



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

Intake air heating spark plug



Fuel filter with water detection



Grounding electrodes



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



Fuel transfer automatic pump



Auto trailer



Mobile distribution panel with 4 sockets



Remote control start



Cable reel



Lack of grounding protection



Fire detector with automatic shutdown generator set



Interior lighting with switches operated at door opening

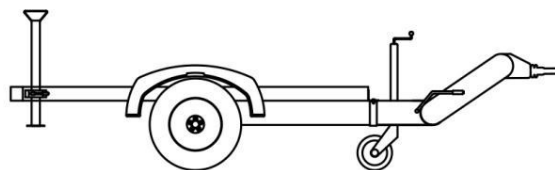
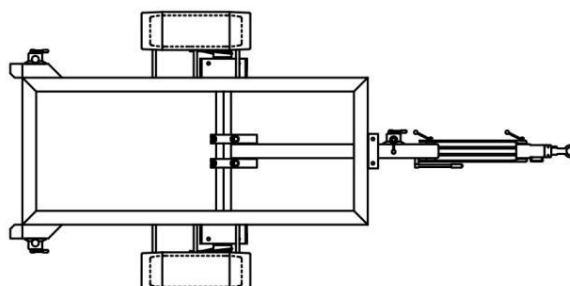


Fire extinguishing system with inert gas



**Optional: RAR homologated auto trailer**

**Model: EGR 2000**



**Created in Germany – Assembled in Romania**  
**Warranty: 36 months or 3000 operating hours**

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