

Product: ESE 25 TBI







Three-phase

50 Hz

Liquid cooling

Diesel



DIESEL GENERATOR	STANDBY POWER	PRIME POWER
ESE 25 TBI	(ESP)	(PRP)
Power (kVA)	25	22,5
Power (kW)	20	18
Speed (rpm)	1500	
Voltage (V)	400 / 230	
Power factor (cos phi)	0,	8
Amperage (Amp)	32	2

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



1. DIESEL ENGINE

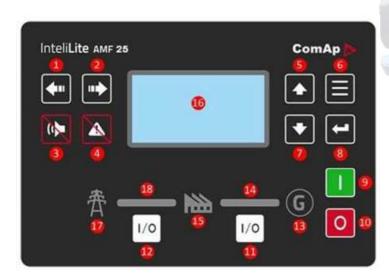
ENGINE SPECIFICATIONS	
Туре	BAUDOUIN
Model	4M06G4D0
No. of cylinders & arrangement	4 in line
Induction system	Natural aspiration
Cooling system	Liquid cooling
Standby power (kWm)	25
Speed (rpm)	1500
Displacement (I)	2,3
Bore & Stroke (mm)	89 x 92
Compression factor	17,5:1
Regulator	Electronic
Total oil capacity (I)	11,5
Coolant capacity of engine (I)	8.6
Fuel consumption at 100% load in prime mode (I / h)	6.1

2. ALTERNATOR

ALTERNATOR SPECIFICATIONS	Stamford or Strathon	
Model	Stamford SOL2-M or ECO 25 KW	
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. PANOU COMANDA

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; 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 shortcircuit 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:

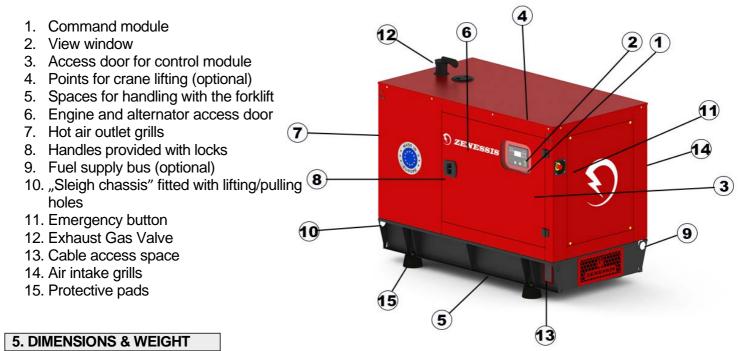
Electrical safety / EMC, BS EN 60950; BS EN 60950 – 6 – 2 EMC; BS EN 61000 – 6 – 4 EMC.





4. HOUSING

Made of galvanized steel, painted in electrostatic field, soundproofed. 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.



Opened generator sizes & weight	
Sizes (length x width x height) (mm)	1600 x 900 x1615
Weight (kg)	560
Fuel tank capacity (liters)	50
Noise level (from distance of 7m)	82 db
Closed generator sizes & weight	
Sizes (length x width x height) (mm)	1870 x 1010 x1415
Weight (kg)	750
Fuel tank capacity (liters)	50
Noise level (from distance of 7m)	70 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





Oversized starting battery

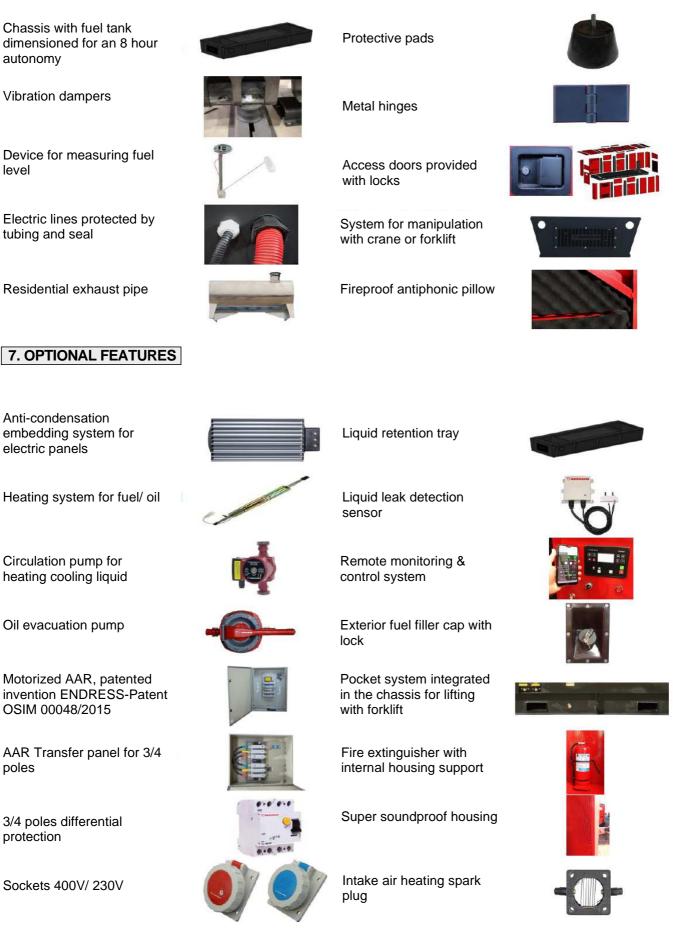
Emergency stop button









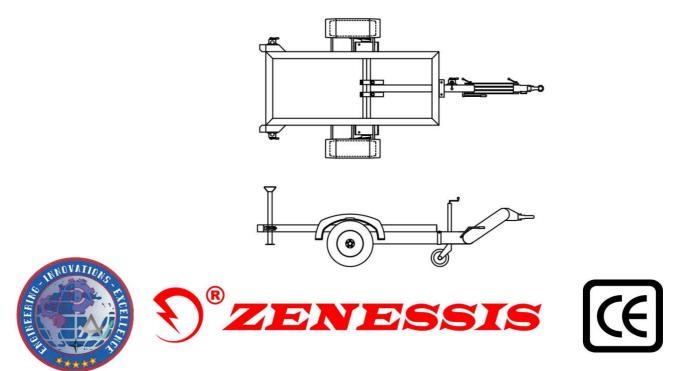


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Fuel filter with water Grounding electrodes detection Bypass panel-petented invention ENDRESS-Patent Fuel transfer automatic OSIM 00010/ 2012 pump Auto trailer Mobile distribution panel with 4 sockets Cable reel Remote control start Lack of grounding protection Fire detector with automatic shutdown generator set Interior lighting with Fire extinguishing system switches operated at door with inert gas opening **Optional: RAR homologated auto trailer**

Model: EGR 1000



Created in Germany – Assembled in Romania Warranty: 24 months or 3000 operating hours

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