

1. DIESEL ENGINE

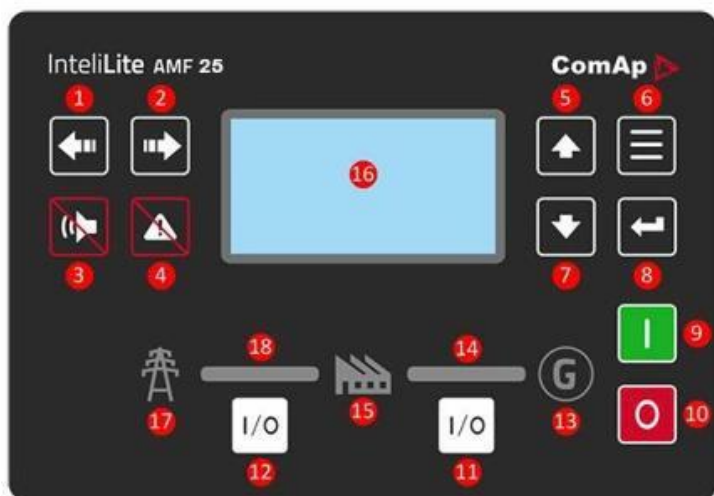
ENGINE SPECIFICATIONS	
Type	VOLVO Stage III
Model	TAD851GE
No. of cylinders & arrangement	6 in line
Induction system	Direct with Turbocharger
Cooling system	Liquid cooling
Standby power (kWm)	242
Speed (rpm)	1500
Displacement (l)	7,7
Bore & Stroke (mm)	110 x 135
Compression factor	17,5:1
Regulator	Electronic
Total oil capacity (l)	27
Coolant capacity of engine (l)	41
Fuel consumption at 100% load in prime mode (l / h)	53,72

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

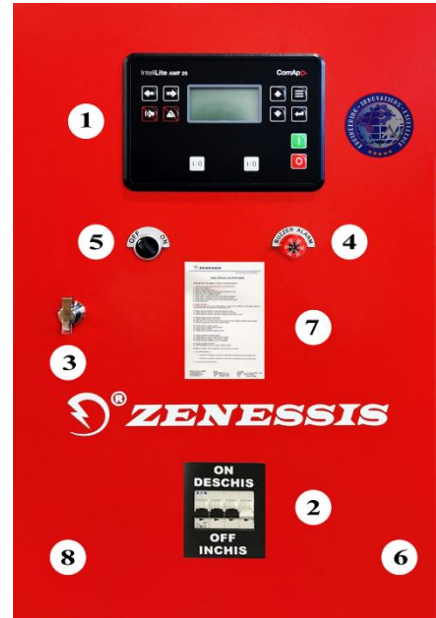
◆ Control panel standard specifications:

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.

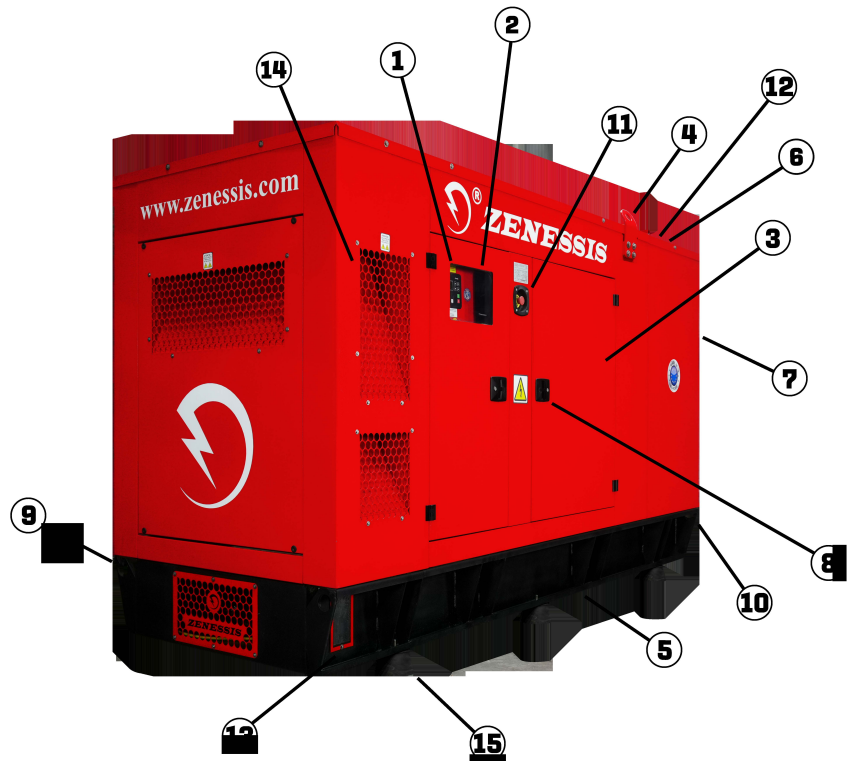
- **Warning:** battery faulty charging, low battery voltage, fail to stop, low fuel level, overload, phase reversing, speed sensor failure.
- **Alarms:** low oil pressure, high engine temperature, under / over voltage, under / overfrequency, under / overvoltage, ECU fault -optional.
- **Status displays:** 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



5. DIMENSIONS & WEIGHT

Opened generator sizes & weight

Sizes (length x width x height) (mm)	3190 x 1100 x 2200
Weight (kg)	2100
Fuel tank capacity (liters)	500
Noise level (from distance of 7m)	82 db

Closed generator sizes & weight

Sizes (length x width x height) (mm)	3500 x 1270 x 2100
Weight (kg)	2700
Fuel tank capacity (liters)	500
Noise level (from distance of 7m)	70 db

6. STANDARD FEATURES

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



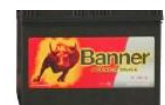
Thermostatic heater for cooling liquid



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



Rubber legs



Vibration dampers



Metal hinges



Device for measuring fuel level



Access doors provided with locks



Electric lines protected by tubing and seal



System for manipulation with crane or forklift



Residential exhaust pipe



Fireproof antiphonic pillow



7. OPTIONAL FEATURES

Anti-condensation embedding system for electric panels



Liquid retention tray + fuel tank with double wall



Heating system for fuel/ oil



Liquid leak detection sensor



Circulation pump for heating cooling liquid



Remote monitoring & control system



Oil evacuation pump



Exterior fuel filler cap with lock



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



Pocket system integrated in the chassis for lifting with forklift



AAR Transfer panel for 3/4 poles



Fire extinguisher with internal housing support



3/4 poles differential protection



Super soundproof housing



Sockets 400V/ 230V



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

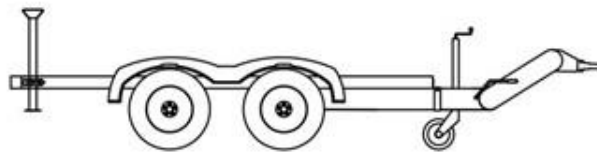
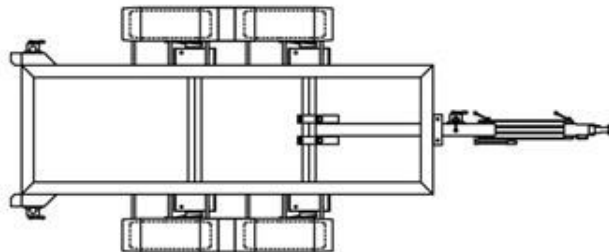


Fire extinguishing system with inert gas



Optional: RAR homologated auto trailer

Model: EGR 3500



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

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