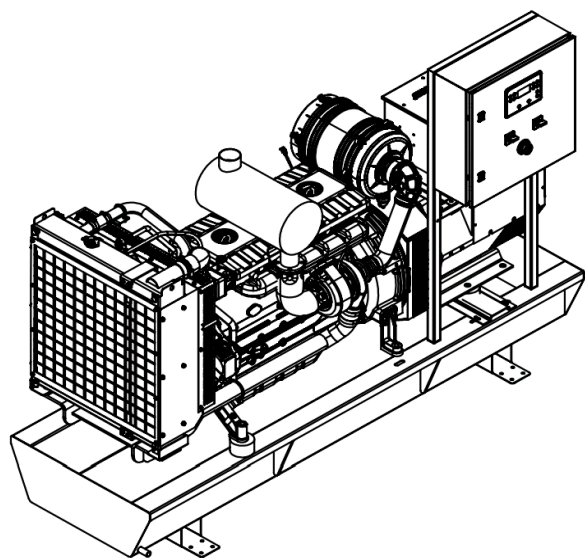


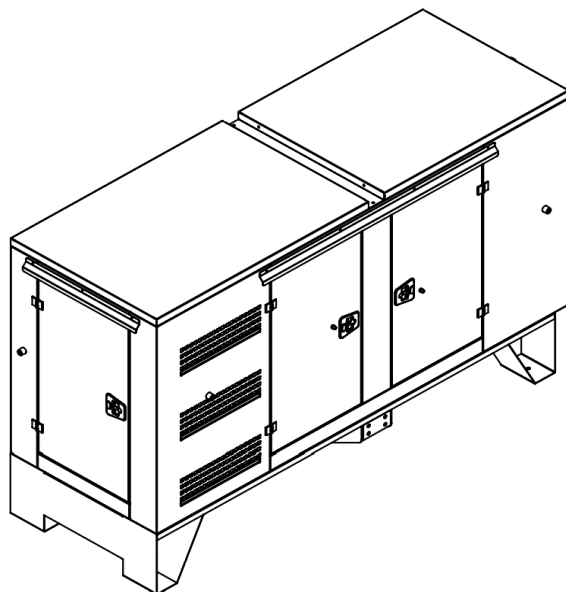
ABATO® Motoren

Innovation in Power Generation®



AB135-OPEN

Dimensions L x W x H	2500 x 1068 x 1800 mm
Weight	1300 kg



AB135-CANOPY

Dimensions L x W x H	3000 x 1070 x 1800 mm
Weight	1970 kg

General information

Genset power PRP	135 kVA
Genset power ESP	150 kVA

Engine

Fuel	Diesel
Fuel tank capacity	275 L
Autonomy with 100% load	9,1 h
Engine speed	1500 rpm

Engine power (PRP)	108 kW
Rated current	194 A

Alternator

Voltage	400 V
Frequency	50 Hz
Rated power factor	0,8
Efficiency	91,7%

Prime Power (PRP)

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period.

Emergency Standby Power (ESP)

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

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Engine specifications

General information

Engine manufacturer	Baudouin
Engine model	6M11G150/5
Engine speed	1500 rpm
N° of Cylinders / Valves	6 / 12
Cylinders arrangement	In line
Bore x Stroke	105 x 130 mm
Displacement	6,8 L
Thermodynamic Cycle	Diesel 4 stroke
Compression ratio	18 : 1
Injection System	Direct
Fuel System	Mechanical Pump
Aspiration	Turbocharged and aftercooled

Noise

Diesel engine noise	109 dB(A)
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Lubrication system

Oil capacity Low / High	18 / 20 L
Oil pressure under normal conditions	3 - 6 Bar
Max. oil temp	105 °C
Oil fuel consumption ratio	≤ 0.2 %
Total system capacity including filters	19,0 L

Electrical system

Electrical system voltage	12 V
Starter power	4 kW
Dynamo charger current	80 A

Air intake

Air intake temperature rise	≤ 5 °C
Air intake restriction clean filter	≤ 35 mbar
Air intake restriction dirty filter	≤ 60 mbar
Recommended air flow PRP	8,4 m³/min
Recommended air flow ESP	8,9 m³/min
Min. diameter of intake pipe	65 mm

Exhaust system

Max. exhaust back pressure	60 mBar
Max. exhaust temp before turbocharger	700 °C
Max. exhaust temp after turbocharger	550 °C
Exhaust flow @ PRP	21,8 m³/min
Exhaust flow @ ESP	23,7 m³/min
Min. diameter of exhaust pipe	65 mm

Cooling system

Max. ambient temp up to	50 °C
Radiator type	Mechanical
Fan type	Belt driven pusher
Coolant capacity of radiator and pipes	13 L
Thermostat opening temp	76 °C
Thermostat full open temp	90 °C
Coolant capacity of the engine	8 L
Cooling fan airflow	305 m³/min

Aftercooling system

Aftercooler system type	Air to air
Max. intake temp @ 25°C ambient	55 °C
Max. diff intake / ambient temp	30 °C
Max. pressure drop aftercooler	120 mBar

Fuel system

Governor	Electronic
Max. pressure at fuel inlet	0,1 Bar
Max. fuel inlet temp	50 °C
Fuel supply flow	92 L/h

Fuel consumption

Consumption at 100% ESP	33,1 L/h
Consumption at 100% PRP	30,2 L/h
Consumption at 75% PRP	23,0 L/h
Consumption at 50% PRP	15,9 L/h
Consumption at 25% PRP	9,0 L/h
Fuel consumption tolerance	± 3%

*All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271 Performance tolerance of ±5%.

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Alternator specifications

General information

Alternator manufacturer	XINGNUO or eq.
Alternator model	XN274E or eq.
Voltage	400 V
Frequency	50 Hz
Rated power factor	0,8
Technology	Brushless, AVR
Voltage measurement	3-phase
Efficiency	91,7%

Cooling

Cooling air	0.514 m³/sec
Temp rise cont. H	125/40 °C

Protection and distortion

Insulation system	H
Protection	IP23
Telephone interference	THF <2%
Waveform distortion without load	< 1.5%
Waveform distortion with a linear load	< 5.0%

Internal assembly

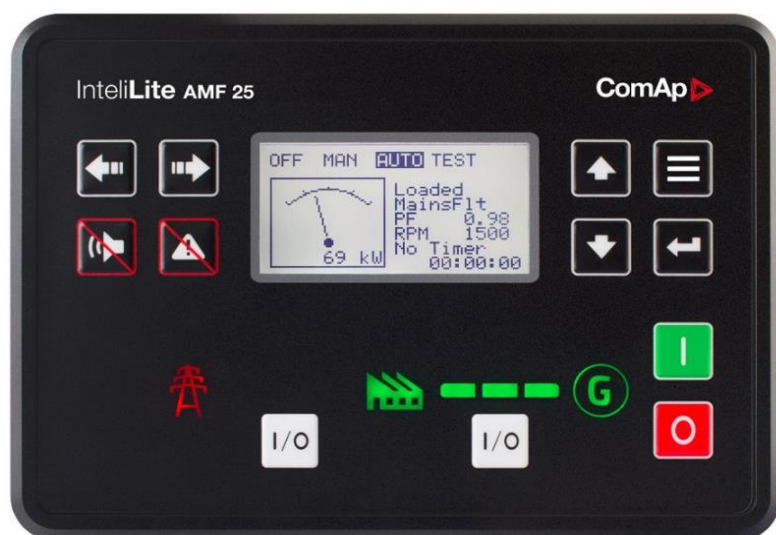
Maximum overspeed	2250 Rev/Min
Stator winding	Double layer concentric
Winding pitch	2/3
Winding leads	12
Bearing amount	1
Stator wdg. Resistance per phase at 22°C	0.0317 Ohms
Rotor wdg. Resistance at 22°C	1.34 Ohms

Alternator highlights

Low telephone interference (THF) as defined by IEC 60034-1
 High efficiency and motor startup capability
 Rigid assembly, effectively reduces the vibration during running
 All rotors are dynamically balanced to conform with BS6861
 Non-maintenance sealed-for-life ball bearing
 Suitable for environment with 95% relative humidity

*Used alternator meets the requirements of BS5000, VDE0530, UTE5100, NEMA MGt-22, CEMA, IEC34-1, CSAC22.2-100 and AS1359

ComAp IntelliLite AMF 25



The following features are included in the used model:

- Standby and Prime power applications
- Flexible event based history with up to 350 events
- 3 Phase generator current measurement
- Generator and Mains phase voltage measurement
- Active/reactive power measurement
- Active and reactive energy counter
- Battery charging alternator circuit connection
- Comprehensive gen-set protections
- CAN and USB on board
- Internet access using Ethernet, GPRS or 4G module
- Support for Modbus and SNMP protocols
- Cloud-based monitoring and control via WebSupervisor
- Active SMS or e-mails (module required)
- Geofencing and tracking via WebSupervisor
- 2x 10 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Operating temperature -20 + 70°C
- IP65 operator interface protection