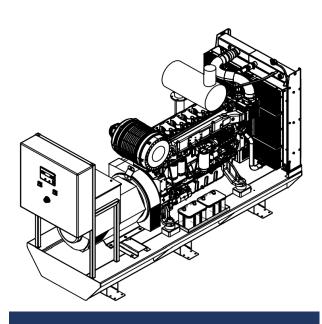
ABATO® Motoren

Innovation in Power Generation®



AB250-OPEN

Dimensions L x W x H 2800 x 1020 x 1850 mm

Weight 2250 kg



AB250-CANOPY

Dimensions L x W x H 3850 x 1200 x 2050 mm

Weight 2722 kg

Alternator

Voltage

General information

Genset power PRP	250 kVA	Engine power (PRP)	200 kW
Genset power ESP	275 kVA	Rated current	360 A

Engine

Fuel	Diesel
Fuel tank capacity	600 L
Autonomy with 100% load	10,5 h
Engine speed	1500 rpm

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.

Frequency 50 Hz Rated power factor 0,8 Efficiency 92,8%

Emergency Standby Power (ESP)

400 V

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		Exhaust system	
Engine manufacturer	Baudouin	Max. exhaust back pressure	60 mBar
Engine model	6M16G275/5	Max. exhaust temp before turbocharger	700 °C
Engine speed	1500 rpm	Max. exhaust temp after turbocharger	600 °C
N° of Cylinders / Valves	6 / 12	Exhaust flow @ PRP	46,8 m³/min
Cylinders arrangement	In line	Exhaust flow @ ESP	50,6 m³/min
Bore x Stroke	127 x 130 mm	Min. diameter of exhaust pipe	100 mm
Displacement	9,7 L		
Thermodynamic Cycle	Diesel 4 stroke	Cooling system	
Compression ratio	17:1	Max. ambient temp up to	50 °C
Injection System	Direct	Radiator type	Mechanical
Fuel System	Mechanical Pump	Fan type	Belt driven pusher
Aspiration	Turbocharged and	Coolant capacity of radiator and pipes	13 L
	aftercooled	Thermostat opening temp	71 °C
		Thermostat full open temp	82 °C
Noise		Coolant capacity of the engine	22 L
Diesel engine noise	114 dB(A)	Cooling fan airflow	415 m³/min
Lubrication system		Aftercooling system	
Oil capacity Low / High	19 / 22 L	Aftercooler system type	Air to air
Oil pressure under normal conditions	3,5 - 5,8 Bar	Max. intake temp @ 25°C ambient	55 °C
Max. oil temp	105 °C	Max. diff intake / ambient temp	30 °C
Oil fuel consumption ratio	≤ 0.2 %	Max. pressure drop aftercooler	120 mBar
Total system capacity including filters	30,0 L		
		Fuel system	
Electrical system		Governor	Electronic
Electrical system voltage	24 V	Max. pressure at fuel inlet	1,3 Bar
Starter power	9 kW	Max. fuel inlet temp	50 °C
Dynamo charger current	55 A	Fuel supply flow	169 L/h
Air intake		Fuel consumption	
Air intake temperature rise	≤ 15 °C	Consumption at 100% ESP	63,4 L/h
Air intake restriction clean filter	≤ 35 mbar	Consumption at 100% PRP	56,9 L/h
Air intake restriction dirty filter	≤ 70 mbar	Consumption at 75% PRP	42,2 L/h
Recommended air flow PRP	16,8 m³/min	Consumption at 50% PRP	28,3 L/h
Recommended air flow ESP	18,0 m³/min	Consumption at 25% PRP	15,4 L/h
Min. diameter of intake pipe	100 mm	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		Cooling	
Alternator manufacturer	XINGNUO or eq.	Cooling air	0.514 m³/sec
Alternator model	XN274K or eq.	Temp rise cont. H	125/40 °C
Voltage	400 V		
Frequency	50 Hz	Protection and distortion	
Rated power factor	0,8	Insulation system	Н
Technology	Brushless, AVR	Protection	IP23
Voltage measurement	3-phase	Telephone interference	THF <2%
Efficiency	92,8%	Wafevorm distortion without load	< 1.5%
		Wavevorm distortion with a linear load	< 5.0%
Internal assembly			
Maximum overspeed	2250 Rev/Min	Alternator highlights	
Stator winding	Double layer concentric	Low telephone interference (THF) as defined by IEC 60034-1	
Winding pitch	2/3	High efficiency and motor startup capability	
Winding leads	12	Rigid assembly, effectively reduces the vibration during running	
Bearing amount	1	All rotors are dynamically balanced to conform with BS6861	
Stator wdg. Resistance per phase at 22°C	0.0155 Ohms	Non-maintenance sealed-for-life ball bearing	

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

1.82 Ohms

ComAp InteliLite AMF 25



The following features are included in the used model:

Standby and Prime power applications

Suitable for environment with 95% relative humidity

- 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

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Rotor wdg. Resistance at 22°C

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