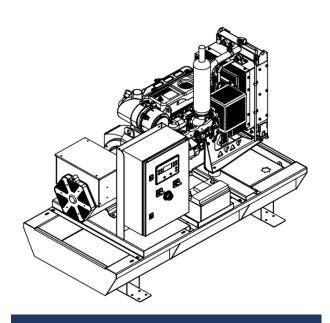
# ABATO<sup>®</sup> Motoren

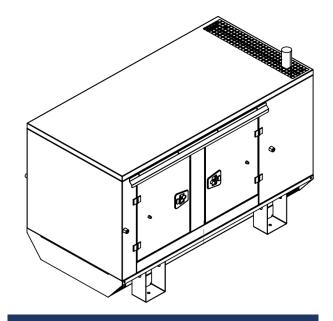
## Innovation in Power Generation®



#### AB40-OPEN

Dimensions L x W x H 1725 x 838 x 1150 mm

Weight 800 kg



#### AB40-CANOPY

Dimensions L x W x H 2006 x 1000 x 1270 mm

Weight 998 kg

**Alternator** 

Rated power factor

Voltage Frequency

Efficiency

# General information

Genset power PRP	40 kVA	Engine power (PRP)	32 kW
Genset power ESP	44 kVA	Rated current	58 A

#### **Engine**

Fuel	Diesel
Fuel tank capacity	100 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.

# Emergency Standby Power (ESP)

400 V

50 Hz

86,6%

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0,8

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.

Phone:

Email:

Website:



# **Engine** specifications

General information		Exhaust system	
Engine manufacturer	Baudouin	Max. exhaust back pressure	80 mBar
Engine model	4M06G44/5	Max. exhaust temp before turbocharger	700 °C
Engine speed	1500 rpm	Max. exhaust temp after turbocharger	650 °C
N° of Cylinders / Valves	4/8	Exhaust flow @ PRP	7,3 m³/min
Cylinders arrangement	In line	Exhaust flow @ ESP	7,9 m³/min
Bore x Stroke	89 x 92 mm	Min. diameter of exhaust pipe	50 mm
Displacement	2,3 L		
Thermodynamic Cycle	Diesel 4 stroke	Cooling system	
Compression ratio	17.5 : 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	Coolant capacity of radiator and pipes	4 L
		Thermostat opening temp	72 °C
Noise		Thermostat full open temp	82 °C
Diesel engine noise	107 dB(A)	Coolant capacity of the engine	5 L
		Cooling fan airflow	84 m³/min
Lubrication system			
Oil capacity Low / High	7.1 / 9.5 L	Aftercooling system	
Oil pressure under normal conditions	2 - 5 Bar	Aftercooler system type	N/A
Max. oil temp	115 °C	Max. intake temp @ 25°C ambient	N/A
Oil fuel consumption ratio	≤ 0.4 %	Max. diff intake / ambient temp	N/A
Total system capacity including filters	11,5 L	Max. pressure drop aftercooler	N/A
Electrical system		Fuel system	
Electrical system voltage	12 V	Governor	Electronic
Starter power	4 kW	Max. pressure at fuel inlet	1,3 Bar
Dynamo charger current	35 A	Max. fuel inlet temp	50 °C
		Fuel supply flow	40 L/h
Air intake			
Air intake temperature rise	≤5°C	Fuel consumption	
Air intake restriction clean filter	≤ 35 mbar	Consumption at 100% ESP	10,8 L/h
Air intake restriction dirty filter	≤ 60 mbar	Consumption at 100% PRP	9,5 L/h
Recommended air flow PRP	2,1 m³/min	Consumption at 75% PRP	7,0 L/h
Recommended air flow ESP	2,2 m³/min	Consumption at 50% PRP	4,7 L/h
Min. diameter of intake pipe	50 mm	Consumption at 25% PRP	2,8 L/h
		- 1	

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

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± 3%

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Fuel consumption tolerance

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# Alternator specifications

General information		Cooling	
Alternator manufacturer	XINGNUO or eq.	Cooling air	0.15 m³/sec
Alternator model	XN184J 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	86,6%	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	0.1482 Ohms	Non-maintenance sealed-for-life ball bearing	

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

0.96 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

Website:

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Rotor wdg. Resistance at 22°C

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