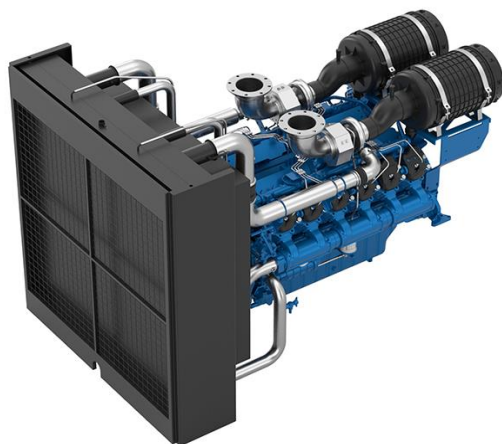


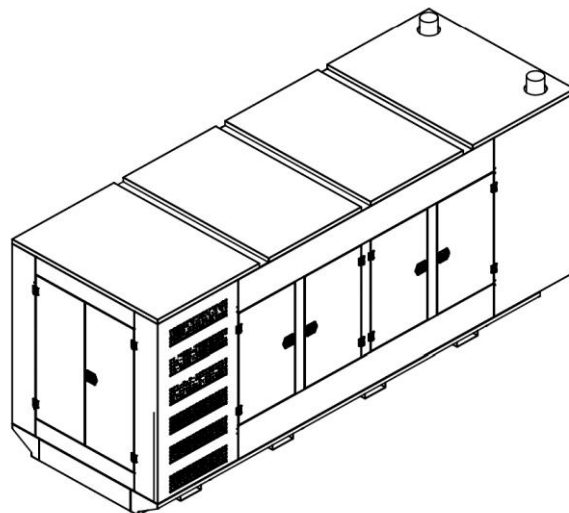
# ABATO® Motoren

*Innovation in Power Generation®*



## AB900-OPEN

Dimensions L x W x H	4500 x 2000 x 2000 mm
Weight	7100 kg



## AB900-CANOPY

Dimensions L x W x H	5200 x 1810 x 2420 mm
Weight	11021 kg

## General information

Genset power PRP	900 kVA
Genset power ESP	1000 kVA

Engine power (PRP)	720 kW
Rated current	1296 A

### Engine

Fuel	Diesel
Fuel tank capacity	1000 L
Autonomy with 100% load	5,1 h
Engine speed	1500 rpm

### Alternator

Voltage	400 V
Frequency	50 Hz
Rated power factor	0,8
Efficiency	93,5%

## 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	12M26G1000/5
Engine speed	1500 rpm
N° of Cylinders / Valves	12 / 48
Cylinders arrangement	V
Bore x Stroke	150 x 150 mm
Displacement	31,8 L
Thermodynamic Cycle	Diesel 4 stroke
Compression ratio	15,7 : 1
Injection System	Direct
Fuel System	Mechanical Pump
Aspiration	Turbocharged and aftercooled

### Noise

Diesel engine noise	121 dB(A)
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### Lubrication system

Oil capacity Low / High	78 / 109 L
Oil pressure under normal conditions	4 - 6 Bar
Max. oil temp	105 °C
Oil fuel consumption ratio	≤ 0.3 %
Total system capacity including filters	114,0 L

### Electrical system

Electrical system voltage	24 V
Starter power	10 kW
Dynamo charger current	55 A

### Air intake

Air intake temperature rise	≤ 5 °C
Air intake restriction clean filter	≤ 30 mbar
Air intake restriction dirty filter	≤ 65 mbar
Recommended air flow PRP	62,2 m³/min
Recommended air flow ESP	66,2 m³/min
Min. diameter of intake pipe	140 mm

### Exhaust system

Max. exhaust back pressure	75 mBar
Max. exhaust temp before turbocharger	750 °C
Max. exhaust temp after turbocharger	550 °C
Exhaust flow @ PRP	176,8 m³/min
Exhaust flow @ ESP	194,5 m³/min
Min. diameter of exhaust pipe	200 mm

### Cooling system

Max. ambient temp up to	50 °C
Radiator type	Mechanical
Fan type	Belt driven pusher
Coolant capacity of radiator and pipes	65 L
Thermostat opening temp	77 °C
Thermostat full open temp	87 °C
Coolant capacity of the engine	83 L
Cooling fan airflow	840 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	150 mBar

### Fuel system

Governor	Electronic
Max. pressure at fuel inlet	1,3 Bar
Max. fuel inlet temp	50 °C
Fuel supply flow	595 L/h

### Fuel consumption

Consumption at 100% ESP	218,9 L/h
Consumption at 100% PRP	195,5 L/h
Consumption at 75% PRP	146,5 L/h
Consumption at 50% PRP	100,8 L/h
Consumption at 25% PRP	57,1 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	XN6D or eq.
Voltage	400 V
Frequency	50 Hz
Rated power factor	0,8
Technology	Brushless, AVR
Voltage measurement	3-phase
Efficiency	93,5%

### Cooling

Cooling air	2.18 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 lap
Winding pitch	2/3
Winding leads	6
Bearing amount	1
Stator wdg. Resistance per phase at 22°C	0.003 Ohms
Rotor wdg. Resistance at 22°C	1.74 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