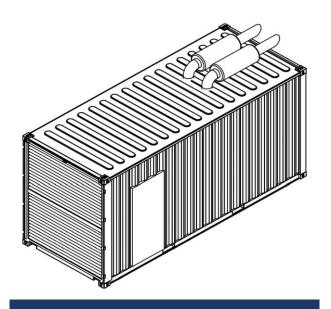




AB1150-OPEN

Dimensions L x W x H 5400 x 2300 x 2000 mm

Weight 8500 kg



AB1150-CONTAINER

Dimensions L x W x H 6050 x 2440 x 3365 mm

Weight 13146 kg

General information

Alternator

Voltage

Genset power PRP	1150 kVA	Engine power (PRP)	920 kW
Genset power ESP	1250 kVA	Rated current	1656 A

Engine

Fuel	Diesel
Fuel tank capacity	1000 L
Autonomy with 100% load	4,2 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 94,9%

400 V

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		Exhaust system	
Engine manufacturer	Baudouin	Max. exhaust back pressure	75 mBar
Engine model	12M33G1250/5	Max. exhaust temp before turbocharger	750 °C
Engine speed	1500 rpm	Max. exhaust temp after turbocharger	550 °C
N° of Cylinders / Valves	12 / 48	Exhaust flow @ PRP	204,6 m ³ /min
Cylinders arrangement	V	Exhaust flow @ ESP	225,1 m³/min
Bore x Stroke	150 x 185 mm	Min. diameter of exhaust pipe	200 mm
Displacement	39,2 L		
Thermodynamic Cycle	Diesel 4 stroke	Cooling system	
Compression ratio	15:1	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	220 L
	aftercooled	Thermostat opening temp	80 °C
		Thermostat full open temp	92 °C
Noise		Coolant capacity of the engine	83 L
Diesel engine noise	121 dB(A)	Cooling fan airflow	2100 m³/min
Lubrication system		Aftercooling system	
Oil capacity Low / High	117 / 155 L	Aftercooler system type	Air to air
Oil pressure under normal conditions	4 - 6,5 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	≤ 0.3 %	Max. pressure drop aftercooler	120 mBar
Total system capacity including filters	160,0 L		
		Fuel system	
Electrical system		Governor	Electronic
Electrical system voltage	24 V	Max. pressure at fuel inlet	1,3 Bar
Starter power	10 kW	Max. fuel inlet temp	50 °C
Dynamo charger current	55 A	Fuel supply flow	1070 L/h
Air intake		Fuel consumption	
Air intake temperature rise	≤ 5 °C	Consumption at 100% ESP	262,6 L/h
Air intake restriction clean filter	≤ 30 mbar	Consumption at 100% PRP	236,2 L/h
Air intake restriction dirty filter	≤ 65 mbar	Consumption at 75% PRP	175,0 L/h
Recommended air flow PRP	68,7 m³/min	Consumption at 50% PRP	119,5 L/h
Recommended air flow ESP	74,1 m³/min	Consumption at 25% PRP	66,4 L/h
Min. diameter of intake pipe	140 mm	Fuel consumption tolerance	± 3%

^{*}All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271 Performance tolerance of $\pm 5\%$.

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Alternator specifications

General information		Cooling	
Alternator manufacturer	XINGNUO or eq.	Cooling air	2.18 m³/sec
Alternator model	XN6G 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	94,9%	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 laver lan	Low telephone interference (THF) as defined by IEC 60034-1	

Stator winding Double layer lap
Winding pitch 2/3
Winding leads 6
Bearing amount 1

Stator wdg. Resistance per phase at 22°C 0.0015 Ohms Rotor wdg. Resistance at 22°C 2.45 Ohms 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

ComAp InteliLite 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

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