



Dimensions L x W x H

Weight

AB350-CANOPY

| Dimensions L x W x H | 3850 x 1200 x 2215 mm |
|----------------------|-----------------------|
| Weight | 4291 kg |

| General information | | | | |
|-------------------------|----------|--------------------|--------|--|
| Genset power PRP | 350 kVA | Engine power (PRP) | 280 kW | |
| Genset power ESP | 400 kVA | Rated current | 504 A | |
| Engine | | Alternator | | |
| Fuel | Diesel | Voltage | 400 V | |
| Fuel tank capacity | 800 L | Frequency | 50 Hz | |
| Autonomy with 100% load | 9,7 h | Rated power factor | 0,8 | |
| Engine speed | 1500 rpm | Efficiency | 93,7% | |

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.

Platinalaan 10 5234 GH 's-Hertogenbosch Netherlands

Phone: +31 (0)88 2228600 Email: info@abato.nl Website: www.abato.nl

3320 x 1090 x 1850 mm

2600 kg

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.

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Engine specifications

| General information | | Exhaust system | |
|-----------------------------------------|------------------|----------------------------------------|--------------------|
| Engine manufacturer | Baudouin | Max. exhaust back pressure | 120 mBar |
| Engine model | 6M21G400/5 | Max. exhaust temp before turbocharger | 740 °C |
| Engine speed | 1500 rpm | Max. exhaust temp after turbocharger | 580 °C |
| N° of Cylinders / Valves | 6 / 24 | Exhaust flow @ PRP | 60,0 m³/min |
| Cylinders arrangement | In line | Exhaust flow @ ESP | 65,0 m³/min |
| Bore x Stroke | 127 x 165 mm | Min. diameter of exhaust pipe | 100 mm |
| Displacement | 12,5 L | | |
| Thermodynamic Cycle | Diesel 4 stroke | Cooling system | |
| Compression ratio | 16:1 | 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 | 22 L |
| | aftercooled | Thermostat opening temp | 76 °C |
| | | Thermostat full open temp | 88 °C |
| Noise | | Coolant capacity of the engine | 25 L |
| Diesel engine noise | 113 dB(A) | Cooling fan airflow | 398 m³/min |
| Lubrication system | | Aftercooling system | |
| Oil capacity Low / High | 30 / 34 L | Aftercooler system type | Air to air |
| Oil pressure under normal conditions | 3,5 - 5,5 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 | ≤ 0.2 % | Max. pressure drop aftercooler | 120 mBar |
| Total system capacity including filters | 40,0 L | | |
| | | Fuel system | |
| Electrical system | | Governor | Electronic |
| Electrical system voltage | 24 V | Max. pressure at fuel inlet | 1,3 Bar |
| Starter power | 8 kW | Max. fuel inlet temp | 50 °C |
| Dynamo charger current | 70 A | Fuel supply flow | 169 L/h |
| Air intake | | Fuel consumption | |
| Air intake temperature rise | ≤ 15 °C | Consumption at 100% ESP | 91,3 L/h |
| Air intake restriction clean filter | ≤ 35 mbar | Consumption at 100% PRP | 82,1 L/h |
| Air intake restriction dirty filter | ≤ 70 mbar | Consumption at 75% PRP | 60,7 L/h |
| Recommended air flow PRP | 22,2 m³/min | Consumption at 50% PRP | 41,0 L/h |
| Recommended air flow ESP | 24,0 m³/min | Consumption at 25% PRP | 22,1 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 | 0.486 m ³ /sec |
| Alternator model | XN4F 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 | 93,7% | 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 lap | 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 | 0.0073 Ohms | Non-maintenance sealed-for-life ball bearing | |
| Rotor wdg. Resistance at 22°C | 1.37 Ohms | 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 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

Platinalaan 10 5234 GH 's-Hertogenbosch Netherlands Phone:+31 (0)88 2228600Email:info@abato.nlWebsite:www.abato.nl