

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25°C to 50°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters above sea level.

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

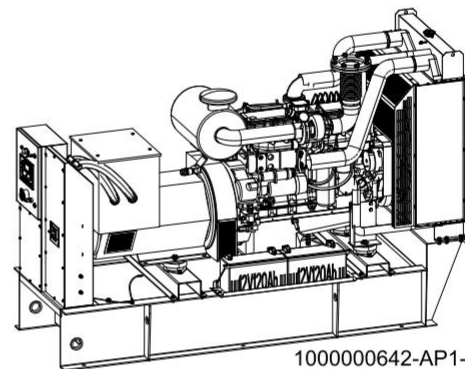
2 General Features

- Cummins engine 6LTAA8.9-G2
- Coupled to a Leroy-Somer or Stamford alternator
- Microprocessor control module DSE or AMF
- MCCB genset circuit breaker: 3-Phase 400A
- Rotate speed governor: Electrical governor S6700E
- Excitation system: Self excited
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V/120Ah sealed for life maintenance free battery
- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 11 hours running
- Drain points for fuel tank
- Operator's Manual / Parts Manual / Specifications

3 Equipment Specification

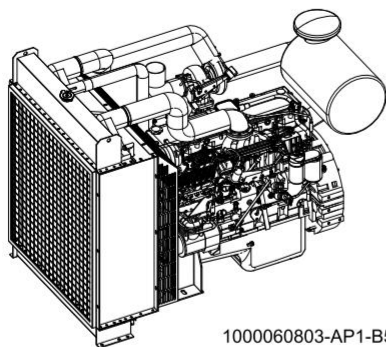
General technical data



Model.....G250DG
 Structure type.....Open Type
 Tank capacity.....500L
 Dry weigh.....2073kg
 Noise level @7m95.5dBA
 Dimensions L×W×H.....2852×1010×1851mm
 Standby Power265kVA/212kW
 Prime Power250kVA/200kW

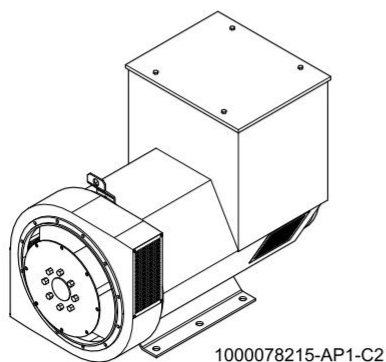
Voltage	380V	400V	415V	440V	
Ampere	379.8A	360.9A	347.8A	328A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	15	27	39	53	58

Diesel Engine



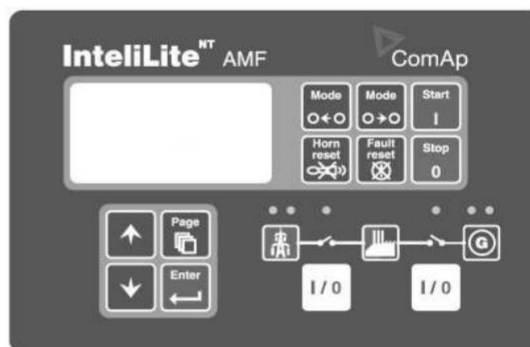
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6LTAA8.9-G2
Dimensions L×W×H.....	1497.4x936.4x1228.7mm
Dry Weight (approx.)	650kg
Number of Cylinders.....	6
Bore.....	114mm
Stroke	145mm
Displacement.....	8.9L
Compression Ratio	16.6
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	≤6.2kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	Diesel
Type of Oil	ACEA E2, API CF, CF-4, CG-4
Oil Capacity	27.6L
Type of Coolant	Glycol mixture
Coolant Capacity	50.3L
Back Pressure	≤10.1kPa
Standby Power	240kW
Prime Power	220kW
Fuel Consumption(100%load).....	197g/kW.h

Alternator



Alternator Manufacturer/Brand	Leroy-Somer
Alternator Model	LSA46.3S5
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	0.58m³/s(50Hz), 0.69m³/s(60Hz)
Voltage Regulation	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

AMF-20 Control System



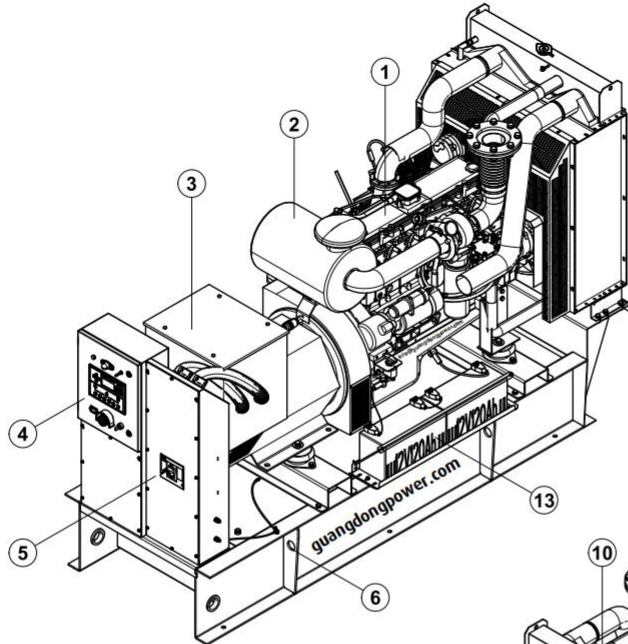
AMF-20 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

Standard Control Function

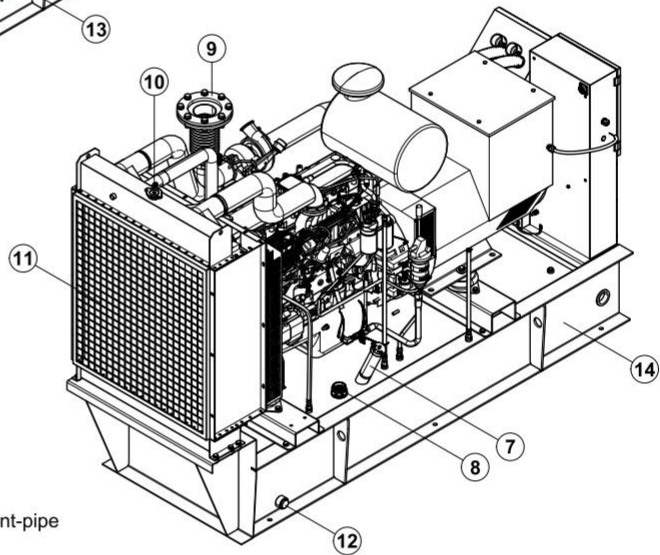
- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4. Open Type Overall Dimensions

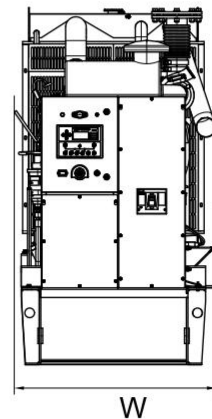
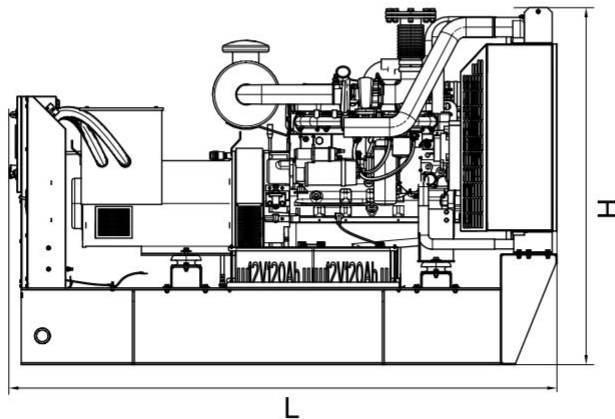
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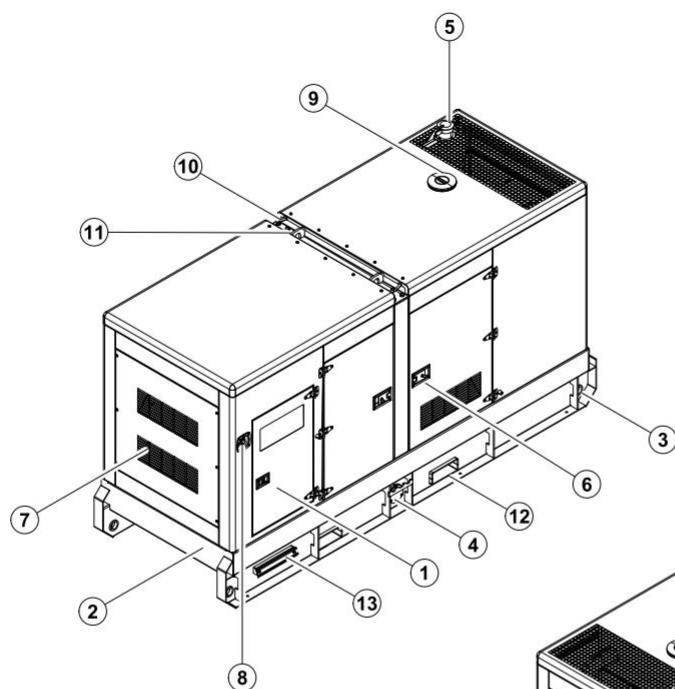
Dry weight	2073kg
Fuel tank capacity	605L
Dimensions L x W x H	2852x1010x1851mm



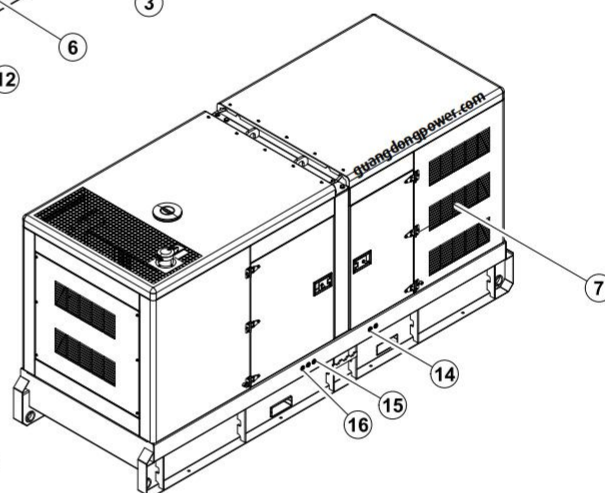
- ⑦ Fuel inlet
- ⑥ Fuel drain
- ⑤ Switch cabinet
- ④ Control cabinet
- ③ Alternator
- ② Air clearer
- ① Engine
- ⑭ Base frame
- ⑬ Battery
- ⑫ Lifting lug
- ⑪ Radiator
- ⑩ Coolant inlet
- ⑨ Mounting flange of vent-pipe
- ⑧ Fuel lever meter



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Dry weight	2872Kg
Fuel tank capacity	500L
Dimensions L x W x H	3662x1322x1958mm



- | | |
|-------------------------|---|
| ⑧ Emergency stop switch | ⑬ Cable trench |
| ⑦ Air inlet | ⑫ Fork lift channel |
| ⑥ Access door | ⑪ Lifting lug |
| ⑤ Exhaust gas outlet | ⑩ Roping lug |
| ④ Fuel drain | ⑨ Coolant inlet |
| ③ Tie down | |
| ② Base frame | |
| ① Control cabinet | |
| | ⑭ Oil drain hose fitting |
| | ⑮ External fuel inlet/return hose fitting |
| | ⑯ Coolant drain hose fitting |

