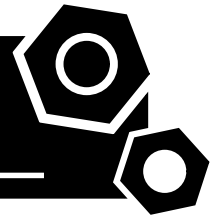


Generator set

Open type

GMS80C

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (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.

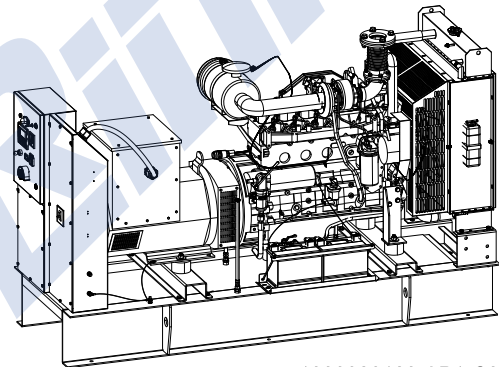
2 General Features

- Cummins engine 4BTA3.9-G11
- Close coupled to a Stamford alternator UCI224G
- Microprocessor control module PLC-920
- NADER main circuit breaker: 125A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V/70AH 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 / Specifications

3 Equipment Specification

General technical data

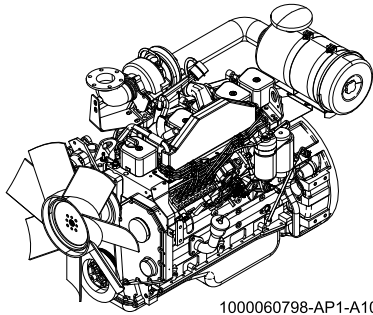


1000020123-AP1-C3

Model.....	GMS80C
Structure type	A
Tank capacity.....	236L
Dry weight.....	1198kg
Noise level @7m	90.8dBA
Dimensions L×W×H.....	2485×883×1495mm
Standby Power	88kVA/70kW
Prime Power	80kVA/64kW

Voltage	380V	400V	415V	440V	
Ampere	121.6A	115.5A	111.3A	104.9A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	7.0	11.0	17.0	22.0	25.0

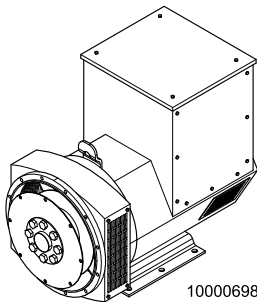
Diesel Engine



1000060798-AP1-A10

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	4BTA3.9-G11
Dimensions L×W×H.....	N/A
Dry Weigh (approx.).....	350kg
Number of Cylinders.....	6
Bore.....	102mm
Stroke.....	120mm
Displacement.....	3.9L
Compression Ratio.....	17.3:1
Type of injection.....	Direct injection
Intake System.....	Turbo charged
Intake Resistance.....	≤6.28kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12/24V
Type of Fuel.....	Diesel
Type of Oil.....	15W40-CF4
Oil Capacity.....	11L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	29.7L
Heat Rejected To Exhaust System.....	N/A
Heat Rejected To Water&Oil.....	49kW(2744BTU/min)
Back Pressure.....	≤10.kPa
Standby Power.....	80kW
Prime Power.....	70kW
Fuel Consumption(100%load).....	206g/kW.h

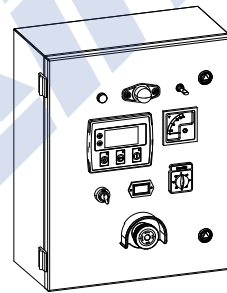
Alternator



1000069871-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	UCI224G
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.....	2250 rpm
Air Flow.....	0.216m³/s(50HZ),0.281m³/s(60HZ)
Voltage Regulation.....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System



1000262115-AP1-A1

PLC-920 is an advanced control module based on microprocessor designed to control the engine via 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.

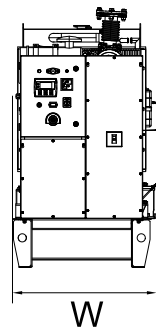
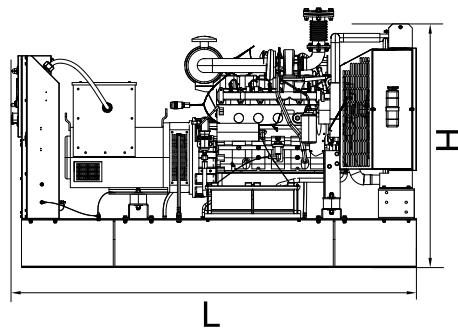
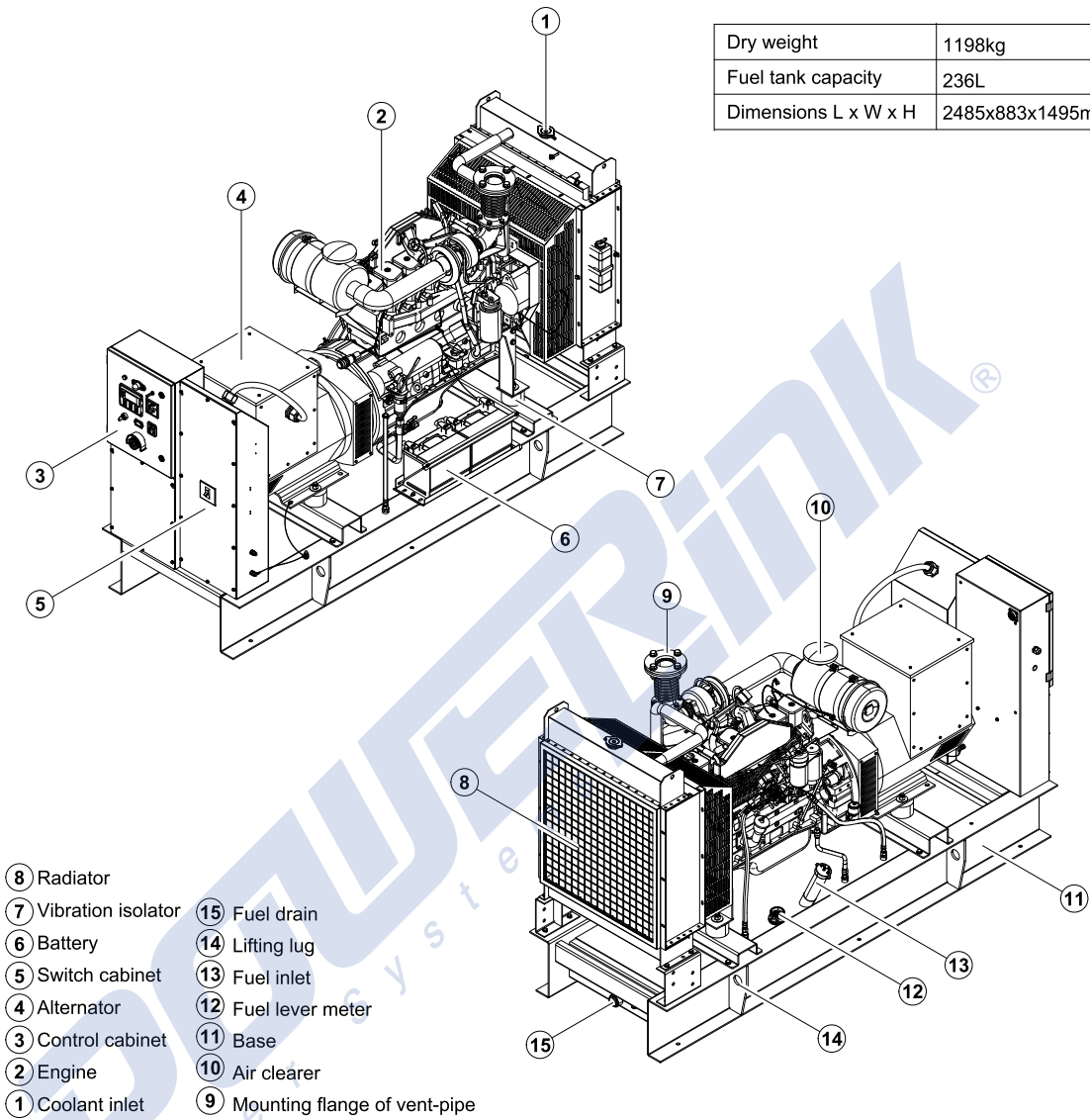
Standard Control Function

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

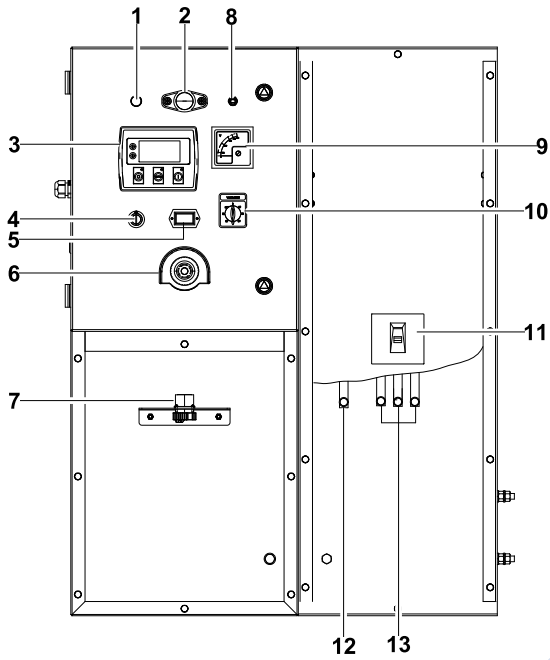
4 Overall Dimensions

1000020123-DR1-C3

Dry weight	1198kg
Fuel tank capacity	236L
Dimensions L x W x H	2485x883x1495mm

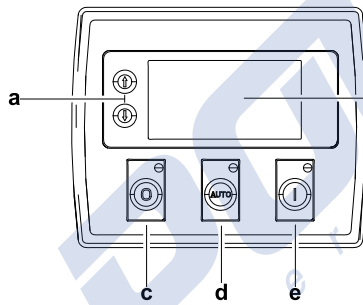


5 Control System



Ref.	Description
1	Charge indicator
2	Control panel lamp
3	Control module
4	Key switch
5	Time counter
6	Emergency stop switch
7	Mains input/Remote control/ATS communication connector
8	Control panel lamp switch
9	Voltage meter
10	Voltmeter change-over switch
11	Main circuit breaker
12	Neutral wire terminal
13	Live wire terminals

Control & field wiring cabinet



Control module

Ref.	Description
a	Navigation button; Accept (Configuration mode only)
b	Main status display
c	Stop/reset button; Next page (Configuration mode only)
d	Auto start button; Decrease value/next item (Configuration mode only)
e	Start button; Increase value/next item (Configuration mode only)

100020123-C3-E

10.2023

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