

## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

### Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25°C to 45°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.

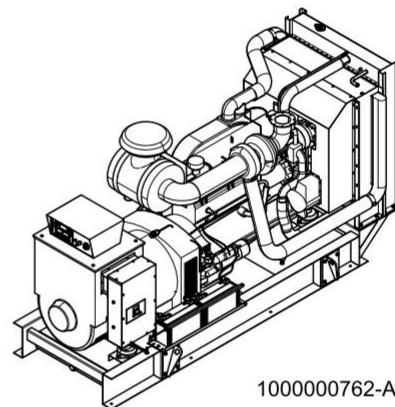
## 2 General Features

- Cummins engine NTAA855G7A
- Coupled to the AC alternator
- Genset control module UK DSE
- Genset circuit breaker: 3-Phase 700A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: SX440
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V 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 for 3 hours running
- Drain points for fuel tank
- Operation Manual / Parts List / Specifications

## 3 Equipment Specification

### General technical data

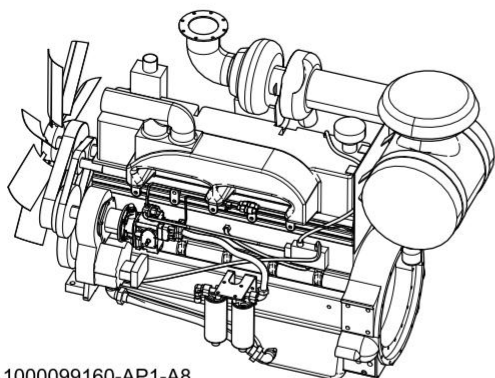


1000000762-AP1-A3

Model.....G400DG  
 Structure type ..... A  
 Tank capacity.....410L  
 Dry weigh.....3260kg  
 Noise level @7m .....N/A  
 Dimensions L×W×H.....2893×1100×1830mm  
 Standby Power.....440kVA/352kW  
 Prime Power.....400kVA/320kW

Voltage	380V	400V	415V
Ampere	612A	581A	560A

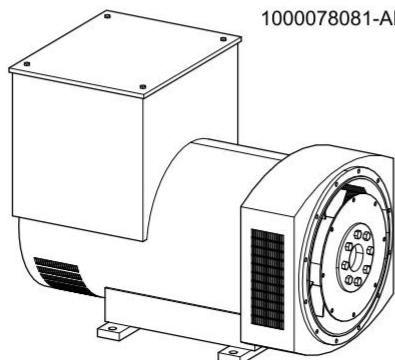
## Diesel engine



1000099160-AP1-A8

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	NTAA855G7A
Dimensions L×W×H.....	1964×987×1610mm
Dry Weigh (approx.) .....	1270kg
Number of Cylinders.....	6
Bore.....	140mm
Stroke .....	152mm
Displacement.....	14L
Compression Ratio .....	14
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charged cooled
Intake Resistance.....	≤6.22KPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil .....	API CD/SE or CCMCD4
Oil Capacity .....	38.6L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	60.6L
Back Pressure .....	≤10KPa
Standby Power .....	407kW
Continuous Power .....	372kW
Fuel Consumption(100%load).....	108L/h

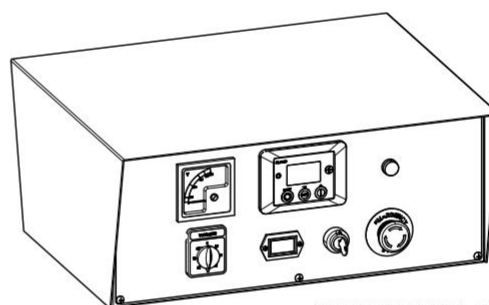
## Alternator



1000078081-AP1-A1

Alternator Manufacturer/Brand .....	Guangdong
Alternator Model .....	PP5S
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.....	1.035 m³/sec(50Hz), 1.312 m³/s(60Hz)
Voltage Regulation .....	±1.0 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## DSE Control System



1000092787-AP1-F2

UK DSE 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

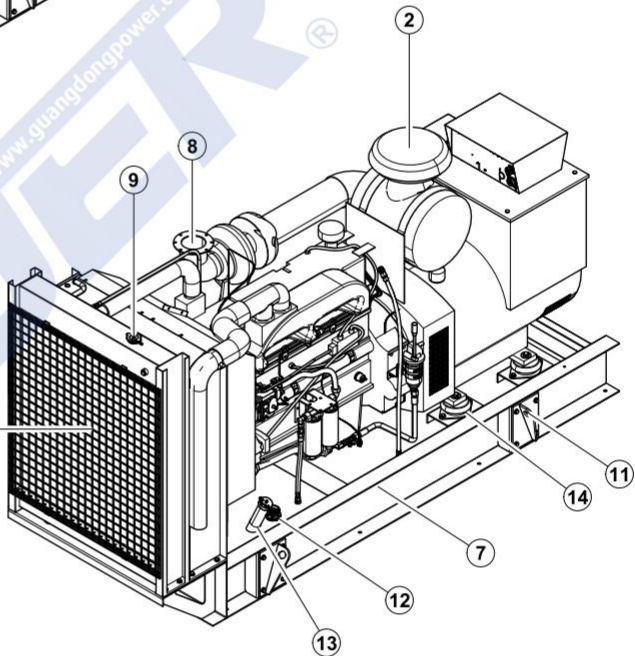
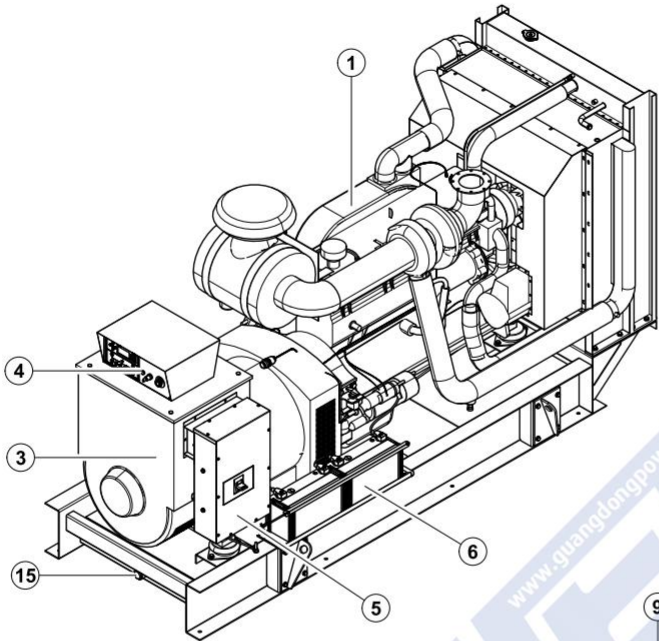
- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning



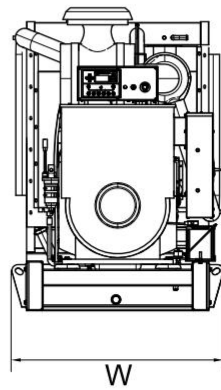
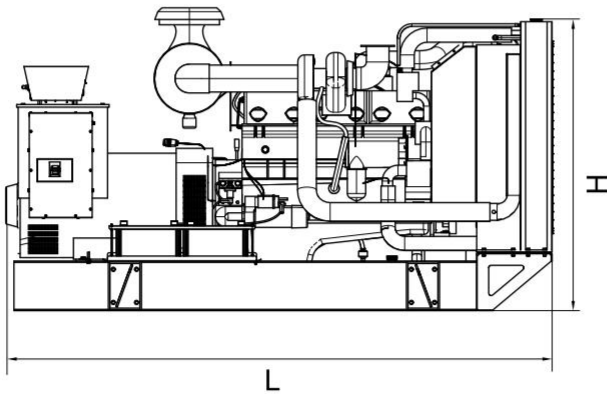
# 4. Open Type Overall Dimensions

1000000762-DR1-A3

Dry weight	3260kg
Fuel tank capacity	410L
Dimensions L x W x H	2893x1100x1830mm



- ⑧ Mounting flange of vent-pipe
- ⑦ Base
- ⑥ Battery
- ⑤ Switch cabinet
- ④ Control cabinet
- ③ Alternator
- ② Air clearer
- ① Engine
- ⑮ Fuel drain
- ⑭ Vibration isolator
- ⑬ Fuel inlet
- ⑫ Fuel lever meter
- ⑪ Lifting lug
- ⑩ Radiator
- ⑨ Water inlet



## 5. Silent Type Overall Dimensions

1000023426-DR1-B2

