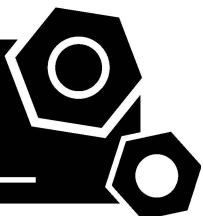


**Generator set**  
**Sound-proof type**  
**QSV100CS**

**SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

### Environmental Operating Conditions

- Installation place: Outdoors or 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 90%.
- 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.

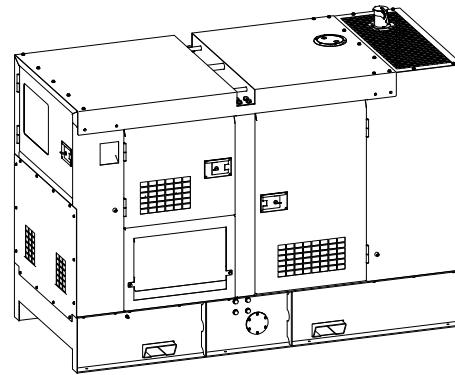
## 2 General Features

- Cummins engine 4BTAA3.9-G3
- Close coupled to Stamford alternator UCI274C
- Microprocessor control module PLC-920
- Main circuit breaker: 160A
- Rotate speed governor: Electrical governor
- Excitation system: Self excited,SHUNT
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS(automatic transfer switch)receptacle

- Remote run connector
- 2x12V/72AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 45°C radiator
- Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 7 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment

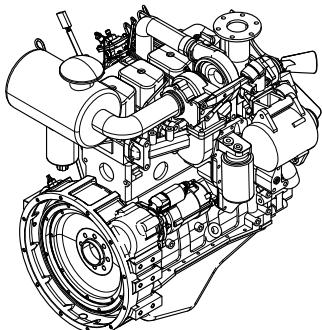
### General technical data



Model.....	QSV100CS
Fuel tank.....	180L
Dry weight.....	3800kg
Sound pressure level @ 7m .....	63.0dBA
Dimensions LxWxH.....	2900x1700x1700mm
Standby Power .....	110kVA/88kW
Prime Power.....	100kVA/80kW

Voltage	380V	400V	415V		
Ampere	151.9A	144.3A	139.1A		
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	6.9	12.3	18.2	24.7	27.6

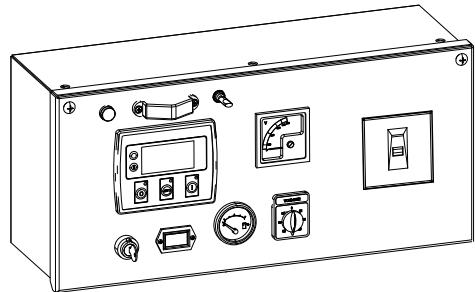
## Dck Yf GnghYa



Engine Manufacturer/Brand.....	Cummins
Engine Model.....	4BTAA3.9-G3
Dimensions L×W×H.....	904.1x689.2x1101.8mm
Dry Weigh .....	355kg
Number of Cylinders.....	4
Bore .....	102mm
Stroke .....	120mm
Displacement.....	3.9L
Compression Ratio.....	18.0
Type of injection.....	Direct injection
Intake System.....	Charge Air Cooled
Intake Resistance.....	$\leq 6.2\text{kPa}$
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel.....	Diesel
Type of Oil .....	15W40-CF4
Oil Capacity .....	10.9L
Type of Coolant .....	Glycol mixture
Coolant Capacity(Engine Only).....	7.2L
Back Pressure .....	$\leq 10.0\text{kPa}$
Standby Power .....	106kW
Prime Power .....	96kW

Alternator Manufacturer/Brand .....	Stamford
Alternator Model .....	UCI274C
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	12
Drip Proof .....	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed .....	2250rpm
Air Flow.....	N/A
Voltage Regulation .....	$\pm 1.0\%$
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

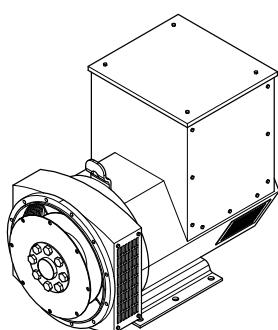
## PLC-920 Control System



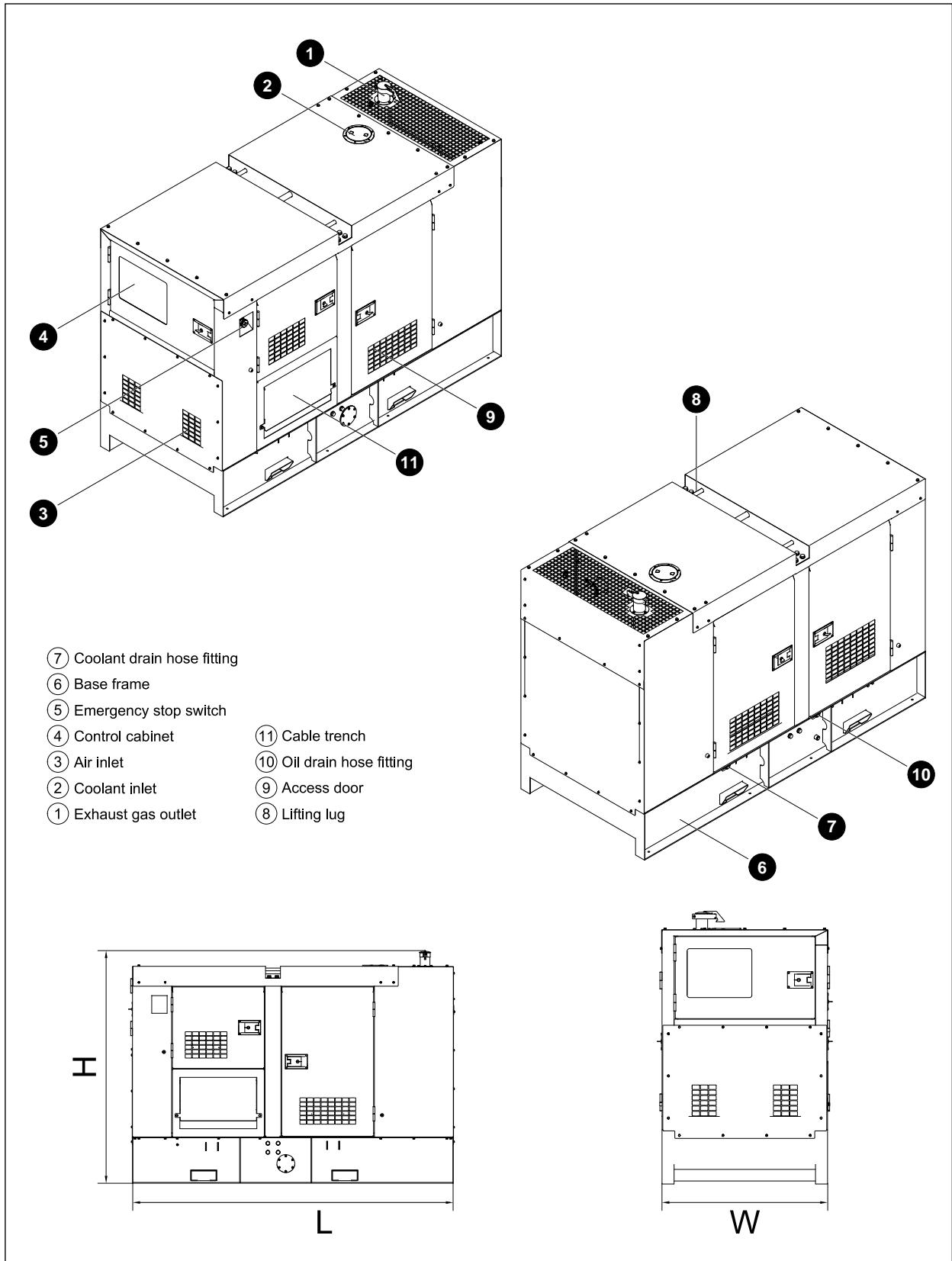
PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

### Standard Control Function

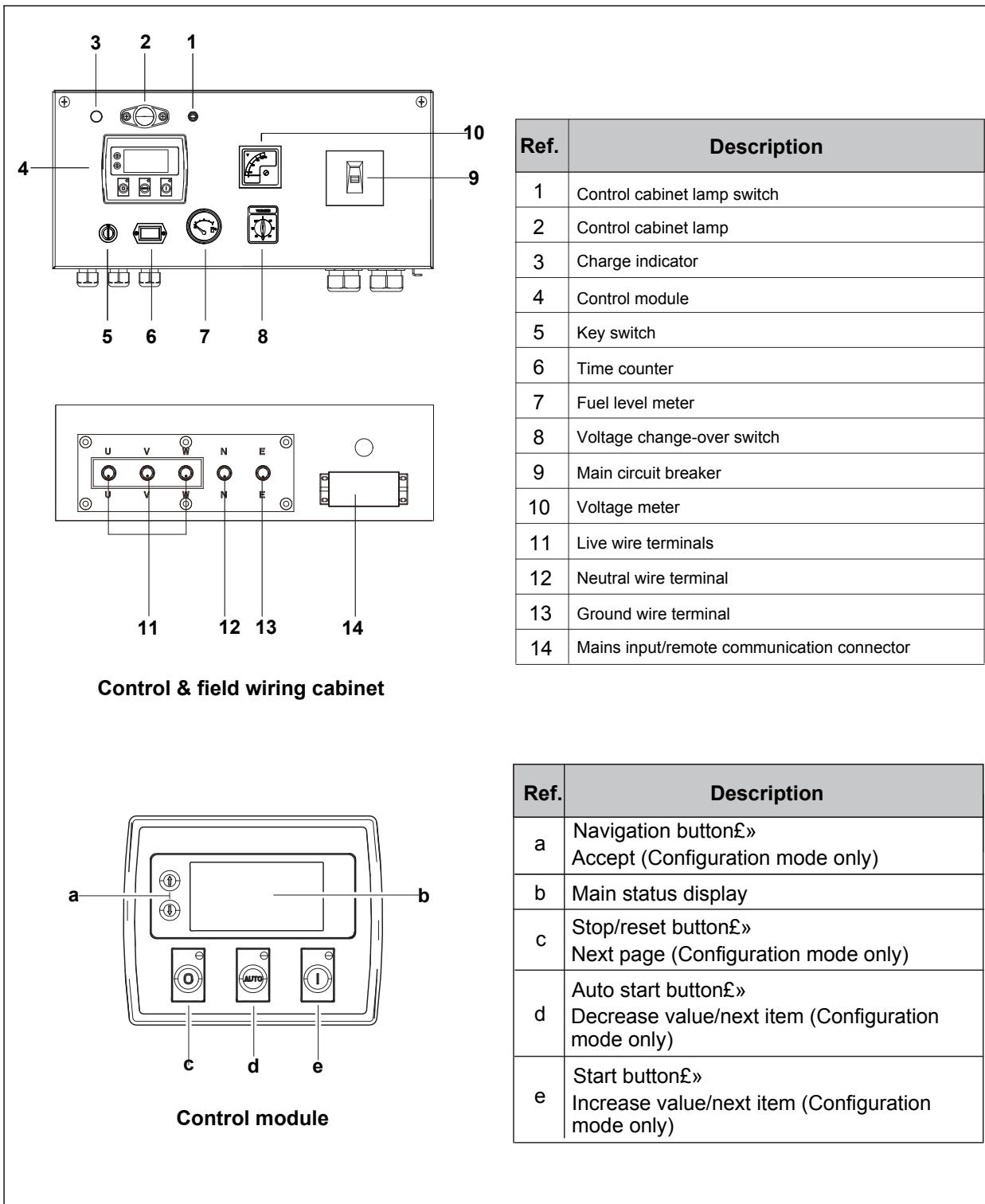
- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning



## 4 Overall Dimensions



## 5 Control System



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05.2023