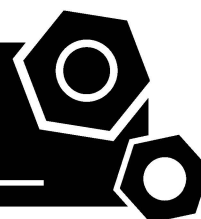


Generator set
Sound-proof type
QSV280C6S

SPECIFICATIONS



MC series QSV280C6S



60 Hz @ 1800rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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.

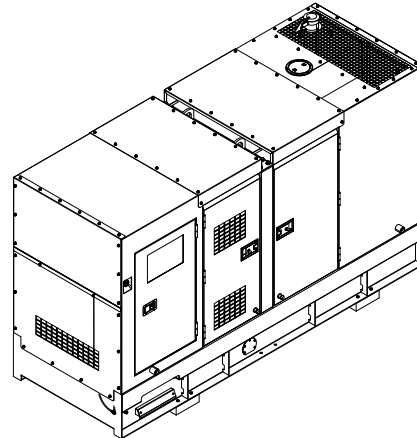
2 General Features

- Cummins engine 6LTAA9.5-G1
- Close coupled to Leroy-somer alternator LSA46.3L10
- Microprocessor control module PLC-920
- Main circuit breaker: 1000A
- Rotate speed governor: EFC
- Excitation system: Self-Excited
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS(automatic transfer switch)receptacle

- Remote run connector
- 2x12V/120AH 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 4 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

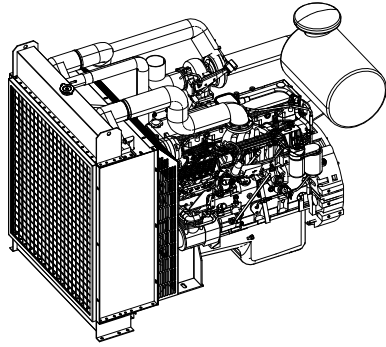
General technical data



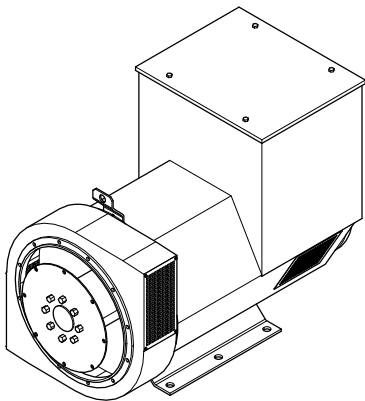
Model.....QSV280C6S
 Fuel tank.....320L
 Dry weight.....3010kg
 Sound pressure level @ 7m.....75.7dBA
 Dimensions L×W×H.....3600x1300x1860mm
 Standby Power.....352kVA/282kW
 Prime Power.....320kVA/256kW

Voltage	208V	220V	230V	240V	
Ampere	888.3A	839.8A	803.3A	769.8A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	19	34	50	68	76

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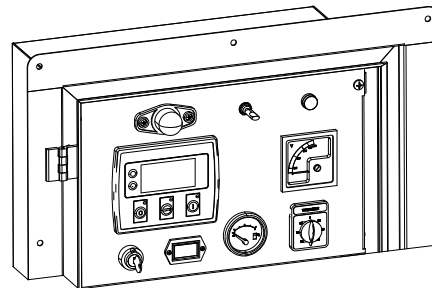


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	6LTAA9.5-G1
Dimensions L×W×H.....	2110x1102x1489mm
Dry Weight (approx.)	945kg
Number of Cylinders.....	6
Bore.....	116mm
Stroke.....	148mm
Displacement.....	9.5L
Compression Ratio.....	28
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-cooled
Intake Resistance.....	≤3.7kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	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.....	55.5L
Back Pressure.....	≤10.0kPa
Standby Power.....	310kW
Prime Power.....	280kW



Alternator Manufacturer/Brand.....	Leroy-somer
Alternator Model.....	LSA46.3L10
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.....	N/A
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

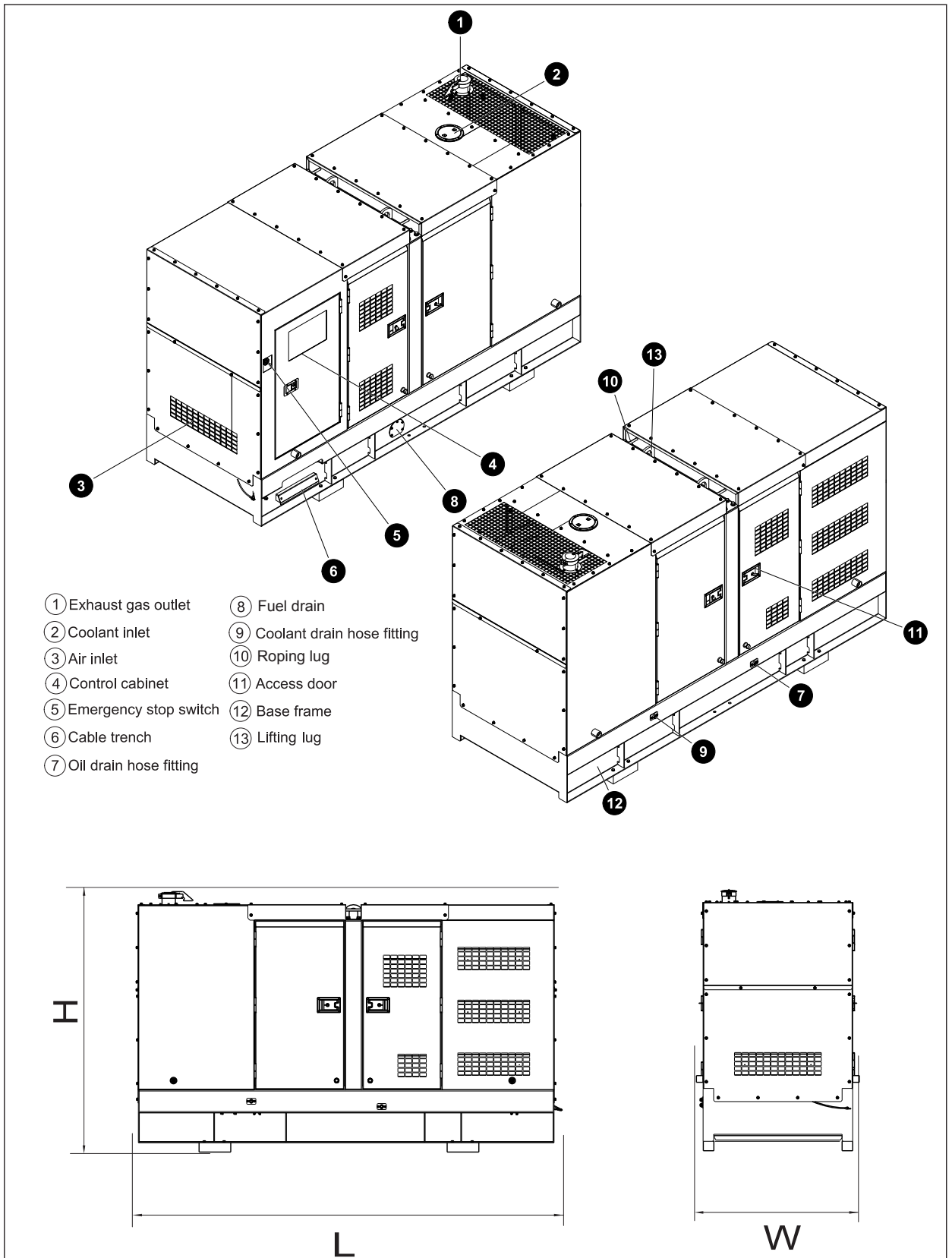


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

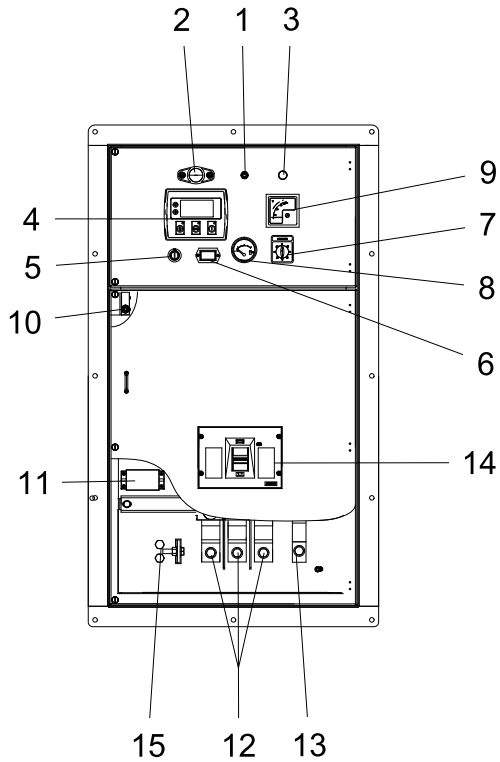
Standard Control Function

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

4 Overall Dimensions

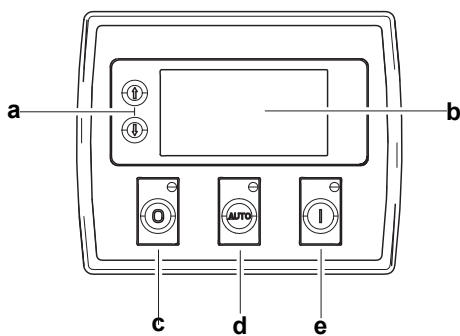


5 Control System



Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Charge indicator
4	Control module
5	Key switch
6	Time counter
7	Voltage changer-over switch
8	Fuel level meter
9	Voltage meter
10	Limit switch
11	Mains input/Remote control/ATS connector
12	Live wire terminal
13	Neutral wire terminal
14	Main circuit breaker
15	Ground wire terminal

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)

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*Specification may change without prior notice. For more info.,
contact Power Link or your local distributors please.*