



Generator set
Sound-proof type
QSV27CS

SPECIFICATIONS



MC series QSV27CS



50 Hz @ 1500rpm,3-phase/5-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.

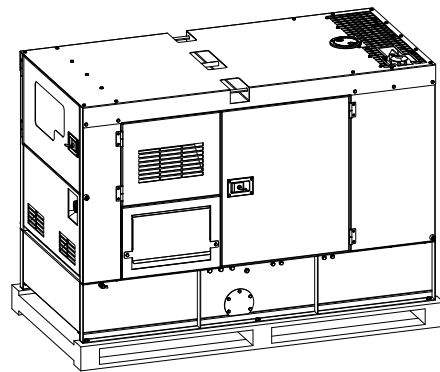
2 General Features

- Cummins engine 4B3.9-G1
- Close coupled to Stamford alternator S0L2-P1
- Microprocessor control module PLC-920
- Main circuit breaker: 63A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited,SHUNT
- A.V.R model: AS480
- Key switch
- Emergency stop switch
- ATS(automatic transfer switch)receptacle

- Remote run connector
- 1x12V/60AH 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 10 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

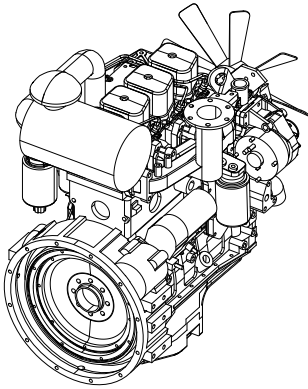
General technical data



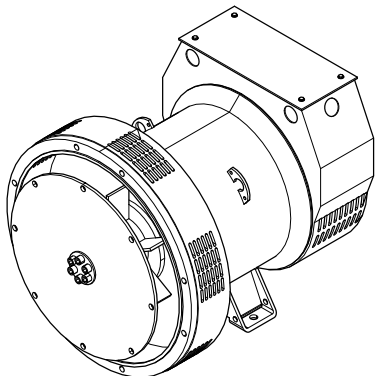
Model..... QSV27CS
 Fuel tank..... 65L
 Dry weight.....870kg
 Sound pressure level @ 7m..... 63.0dBA
 Dimensions L×W×H.....2250x920x1250mm
 Standby Power 30kVA/24kW
 Prime Power 27kVA/22kW

| | | | | | |
|--------------------------------|-------|-------|-------|------|------|
| Voltage | 380V | 400V | 415V | | |
| Ampere | 41.0A | 39.0A | 37.6A | | |
| Genset Fuel Consumption | | | | | |
| Frequency/Load | 25% | 50% | 75% | 100% | 110% |
| 50Hz (L/h) | 1.8 | 3.4 | 5.0 | 6.6 | 7.3 |

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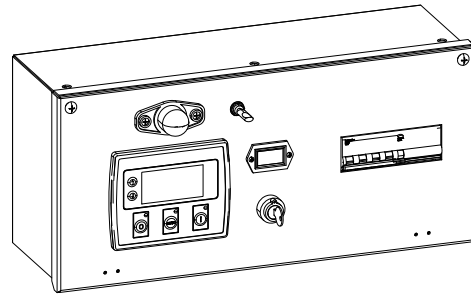


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|---------------------------------|---------------------------|
| Engine Manufacturer/Brand | Cummins |
| Engine Model | 4B3.9-G1 |
| Dimensions L×W×H..... | 765×582×908mm |
| Dry Weigh (approx.) | 308kg |
| Number of Cylinders..... | 4 |
| Bore..... | 102mm |
| Stroke | 120mm |
| Displacement..... | 3.9L |
| Compression Ratio | 16.5 |
| Type of injection..... | Direct injection |
| Intake System..... | Natural aspirated |
| Intake Resistance | ≤4.98kPa |
| Cooling System | Water cooled |
| Fan | Pusher |
| Battery Voltage | 12/24V |
| Type of Fuel..... | 0# or ASTM2 |
| Type of Oil | API-CG4/CH4 or ACEA-E3/E5 |
| Oil Capacity | 9.5L |
| Type of Coolant | Glycol mixture |
| Coolant Capacity | 19.6L |
| Back Pressure | ≤ 10.1kPa |
| Standby Power | 29kW |
| Prime Power | 27kW |



| | |
|---|---------------------|
| Alternator Manufacturer/Brand | Stamford |
| Alternator Model | S0L2-P1 |
| 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.

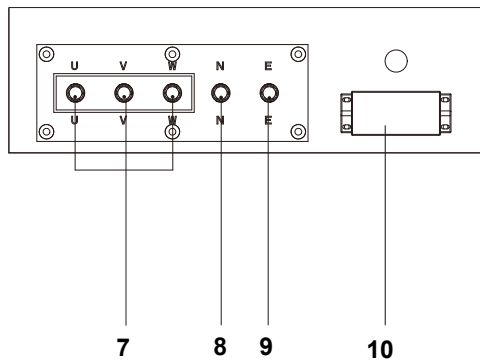
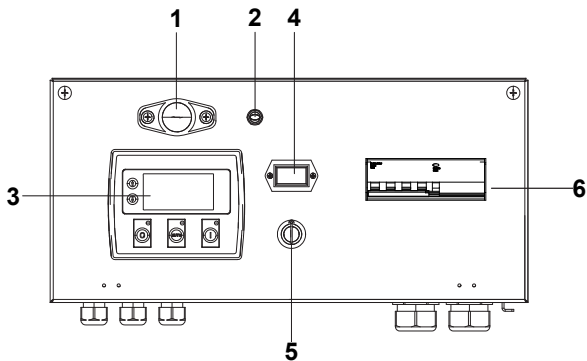
Standard Control Function

- 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



Control & field wiring cabinet



Control module

| Ref. | Description |
|------|--|
| 1 | Control cabinet lamp |
| 2 | Control cabinet lamp switch |
| 3 | Control module |
| 4 | Time counter |
| 5 | Key switch |
| 6 | Main circuit breaker |
| 7 | Live wire terminals |
| 8 | Neutral wire terminal |
| 9 | Ground wire terminal |
| 10 | Mains input/remote communication connector |

| 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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<http://www.powerlinkworld.com>

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