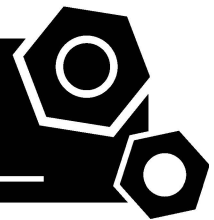


Generator set
Sound-proof type
QSV10PS

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance 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.

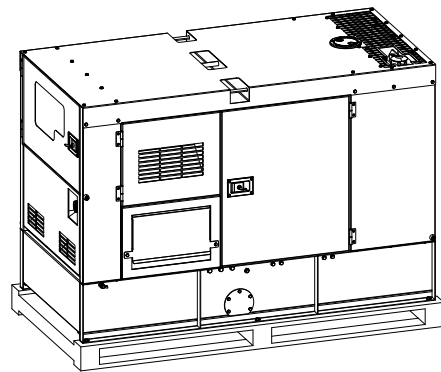
2 General Features

- Perkins engine 403A-11G
- Close coupled to Stamford alternator S0L1-H1
- Microprocessor control module PLC-920
- Main circuit breaker: 16A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited,SHUNT
- A.V.R model: AS540
- 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 11 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

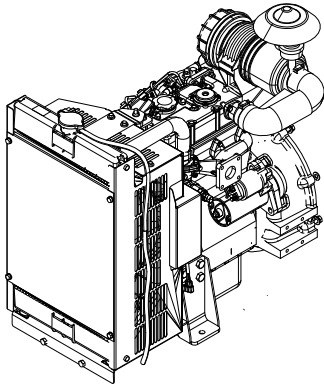
General technical data



Model..... QSV10PS
 Tank capacity..... 30L
 Dry weight..... 730kg
 Sound pressure level @ 7m 60.0dBA
 Dimensions L×W×H..... 1650x730x1065mm
 Standby Power 11kVA/9kW
 Prime Power 10kVA/8kW

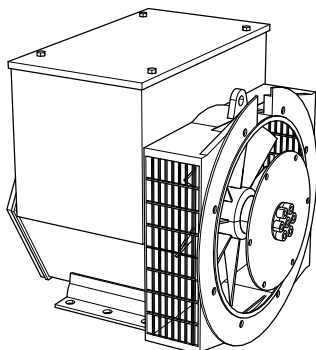
Voltage	380V	400V	415V	440V	
Ampere	15.2A	14.4A	13.9A	13.1A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	1.4	2.0	2.6	3.1

Power System



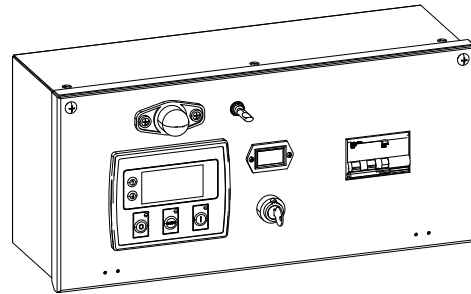
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	403A-11G
Dimensions L×W×H.....	700×449×776mm
Dry Weigh (approx.).....	129.2kg
Number of Cylinders.....	3
Bore.....	77mm
Stroke.....	81mm
Displacement.....	1.131L
Compression Ratio.....	23
Type of Injection.....	Indirect injection
Intake System.....	Natural aspirated
Intake Resistance.....	≤6.4kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	EPA2D 89.330-96/CEC RF-06-99
Type of Oil.....	API-CH-4/ ACEA E5
Oil Capacity.....	4.9L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	5.2L
Back Pressure.....	≤10.2kPa
Standby Power.....	9.5kW
Prime Power.....	8.6kW
Fuel Consumption(100%load).....	2.6L/h

Alternator



Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	S0L1-H1
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

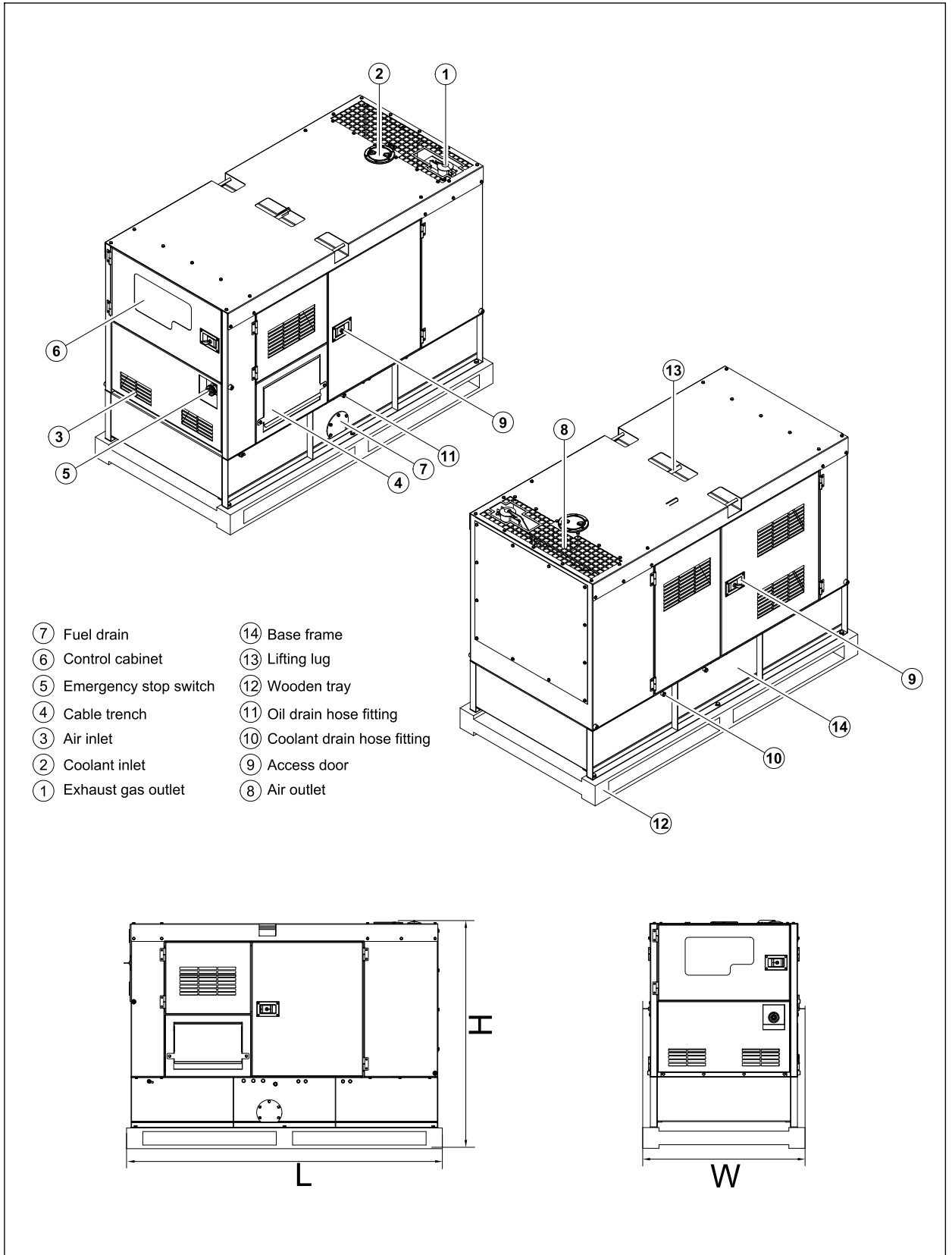


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

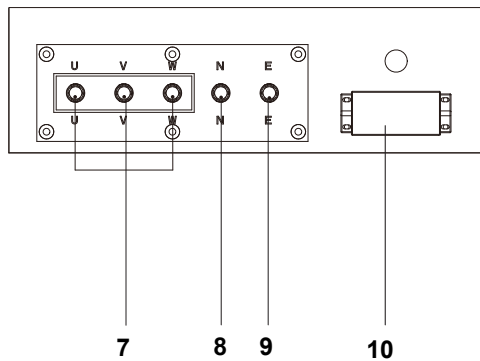
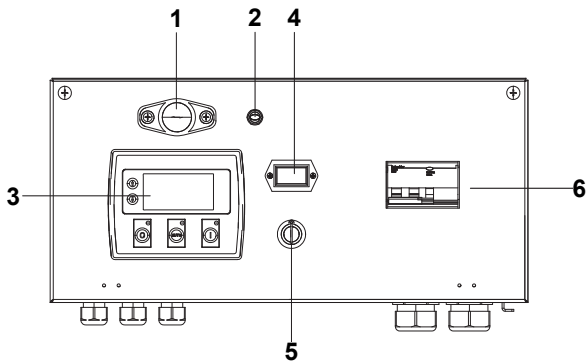
Standard Control Function

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

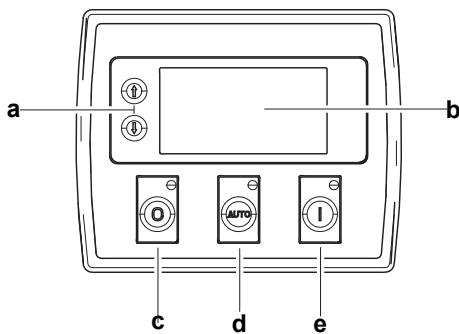
4 Overall Dimensions



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)