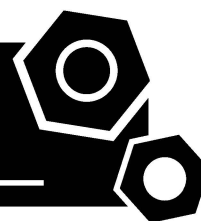


Generator set
Sound-proof type
QSV90XS-AU

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

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.

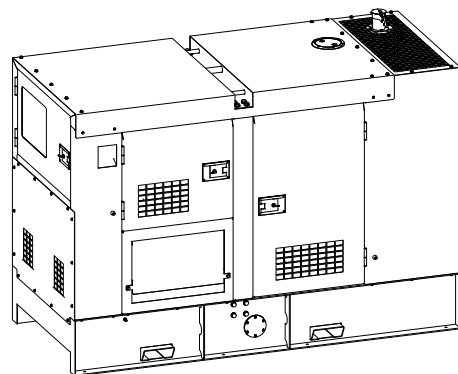
2 General Features

- PowerLink engine 4D4.1TAG3
- Close coupled to PowerLink alternator PL3A
- Microprocessor control module PLC-920
- Main circuit breaker: 160A
- Rotate speed governor: Electric fuel control
- Excitation system: Self excited, SHUNT
- A.V.R model: SX440
- 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 25 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

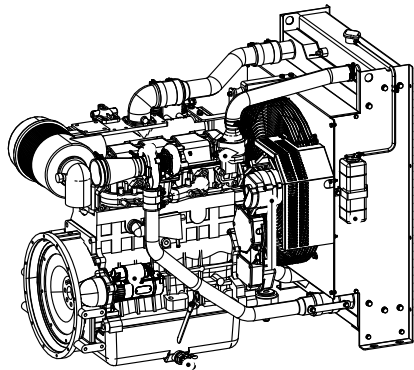
General technical data



Model.....	QSV90XS-AU
Tank capacity.....	550L
Dry weight.....	2070kg
Sound pressure level @ 7m	68.5dBA
Dimensions L×W×H.....	3142x1215x1719mm
Standby Power	99kVA/79kW
Prime Power	90kVA/72kW

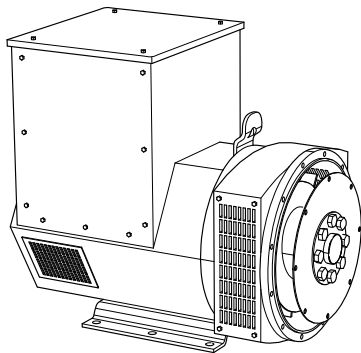
Voltage	380V	400V	415V		
Ampere	136.7A	129.9A	125.2A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	5.6	11.0	16.3	21.7	23.9

Power System



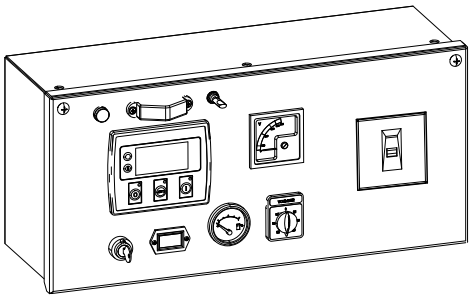
Engine Manufacturer/Brand	Powerlink
Engine Model	4D4.1TAG3
Dimensions L×W×H	1160×710×965mm
Dry Weigh (approx.)	500kg
Number of Cylinders	4
Bore	110mm
Stroke	125mm
Displacement	4.1L
Compression Ratio	17.0
Type of injection	Direct injection
Intake System	Turbocharged and charge air cooled
Intake Resistance	≤5kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel	No.2 or ASTM D975
Type of Oil	API CF/SE or CCMCF4
Oil Capacity	14.0L
Type of Coolant	Glycol mixture
Coolant Capacity	13.0L
Back Pressure	≤10.1kPa
Standby Power	81kW
Prime Power	74kW

Alternator



Alternator Manufacturer/Brand	PowerLink
Alternator Model	PL3A
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

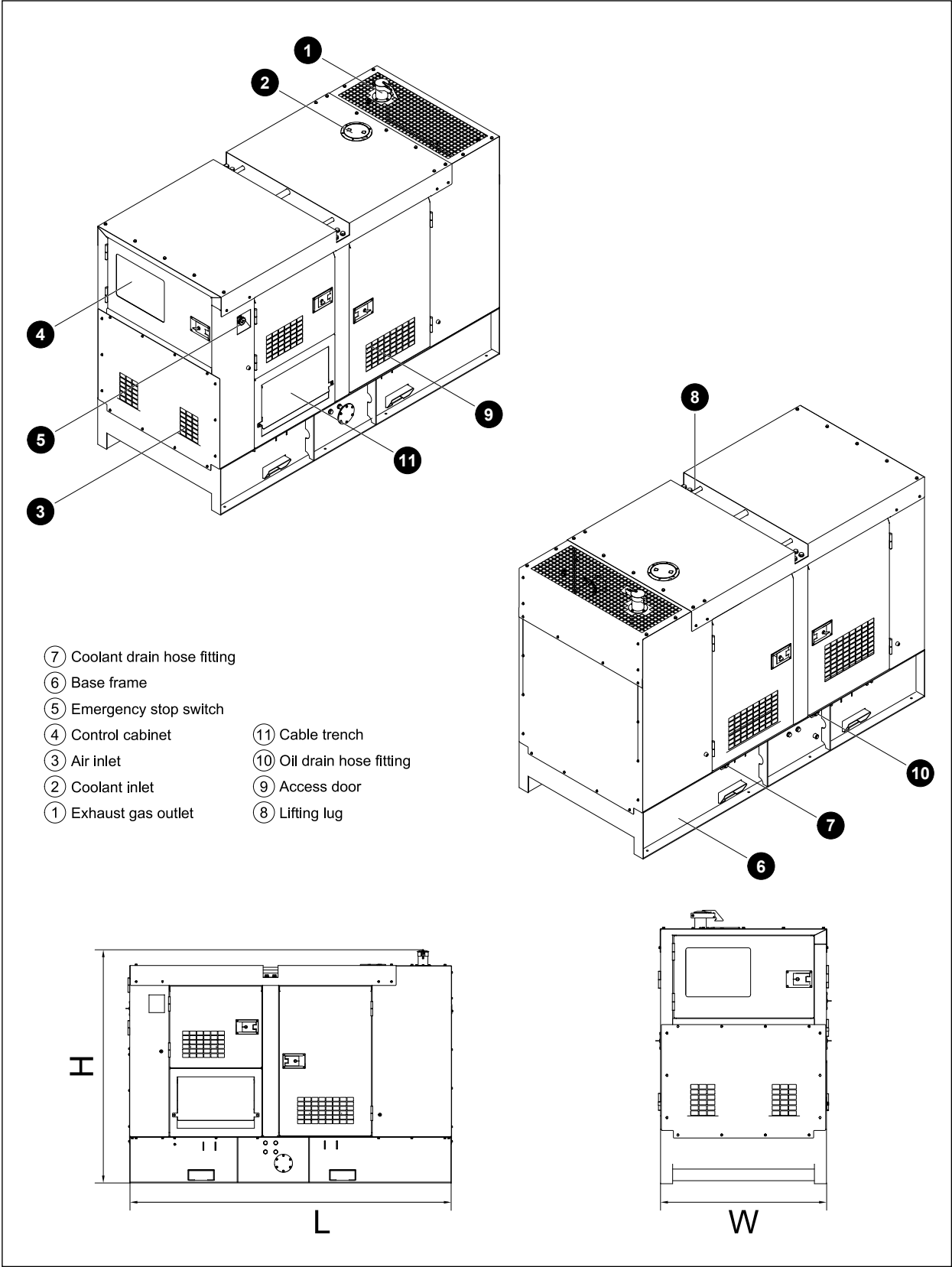


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

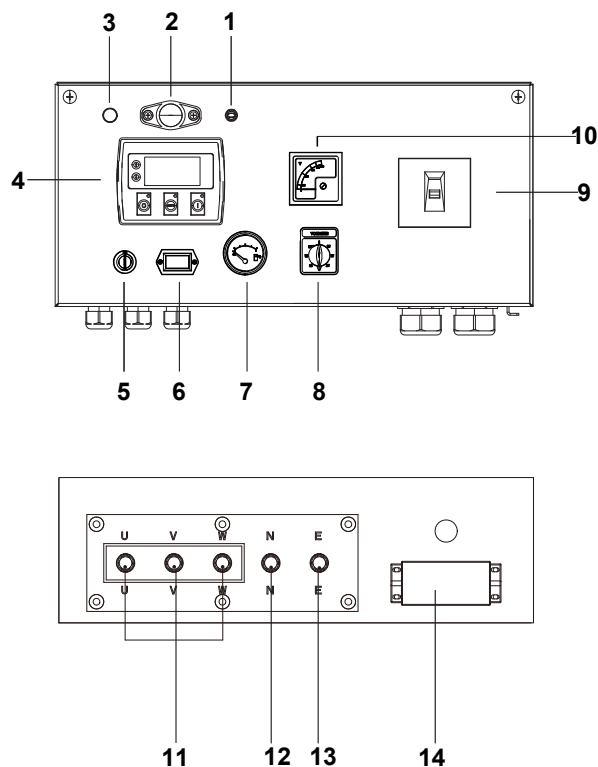
Standard Control Function

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

4 Overall Dimensions

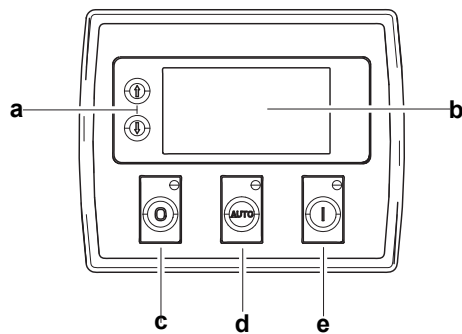


5 Control System



Control & field wiring cabinet

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



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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