

SPECIFICATION



Power Link the World

MODEL QSV15PS **QSV SERIES** **(FOR 50Hz DIESEL GENSET)**

Revision: A2 (12/21)

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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 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters.

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.

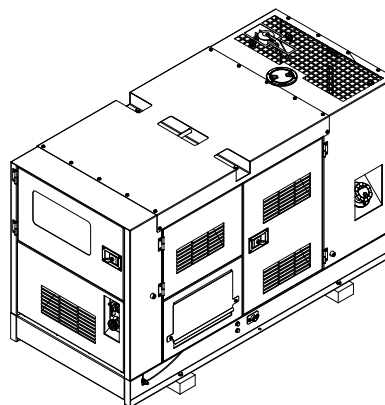
2 General Features

- Perkins engine 403A-15G2
- Close coupled to a Stamford alternator S0L1-P1
- Microprocessor control module PLC-920
- SCHNEIDER main circuit breaker: 32A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: SX440
- Key switch
- ATS (automatic transfer switch) receptacle
- 1x12V/72AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lugs
- 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 Specification

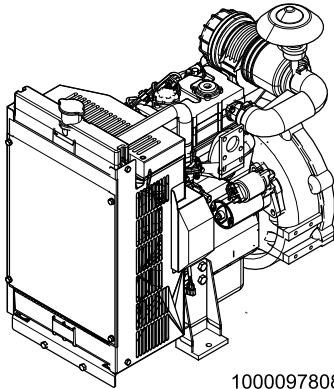
General technical data



Model.....	QSV15PS
Structure type	R
Tank capacity.....	43L
Dry weight.....	659.2kg
Noise level @7m	60dB(A)
Dimensions L×W×H.....	1740x840x1075.5mm
Standby Power	17kVA/13kW
Prime Power	15kVA/12kW

Voltage	380V	400V	415V	440V	
Ampere	22.8A	21.6A	20.8A	19.7A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	2.5	3.1	3.6	4.1	4.9

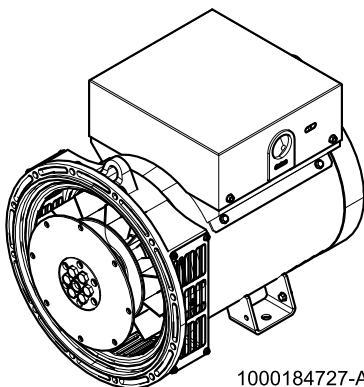
Diesel engine



1000097808-AP1-B2

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	403A-15G2
Dimensions L×W×H.....	820×469×793mm
Dry Weigh (approx.)	197kg
Number of Cylinders.....	3
Bore.....	84mm
Stroke	90mm
Displacement.....	1.496L
Compression Ratio.....	22.5
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	6.0L
Type of Coolant	Glycol mixture
Coolant Capacity	6.0L
Back Pressure	≤10.2kPa
Standby Power	16kW
Prime Power	14kW
Fuel Consumption(100%load).....	4.9L/h

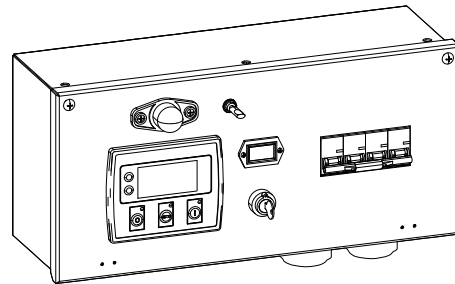
Alternator



1000184727-AP1-A2

Alternator Manufacturer/Brand	Stamford
Alternator Model	S0L1-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.....	5.3m³/min(50Hz),5.8m³/min(60Hz)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<45

PLC-920 Control System

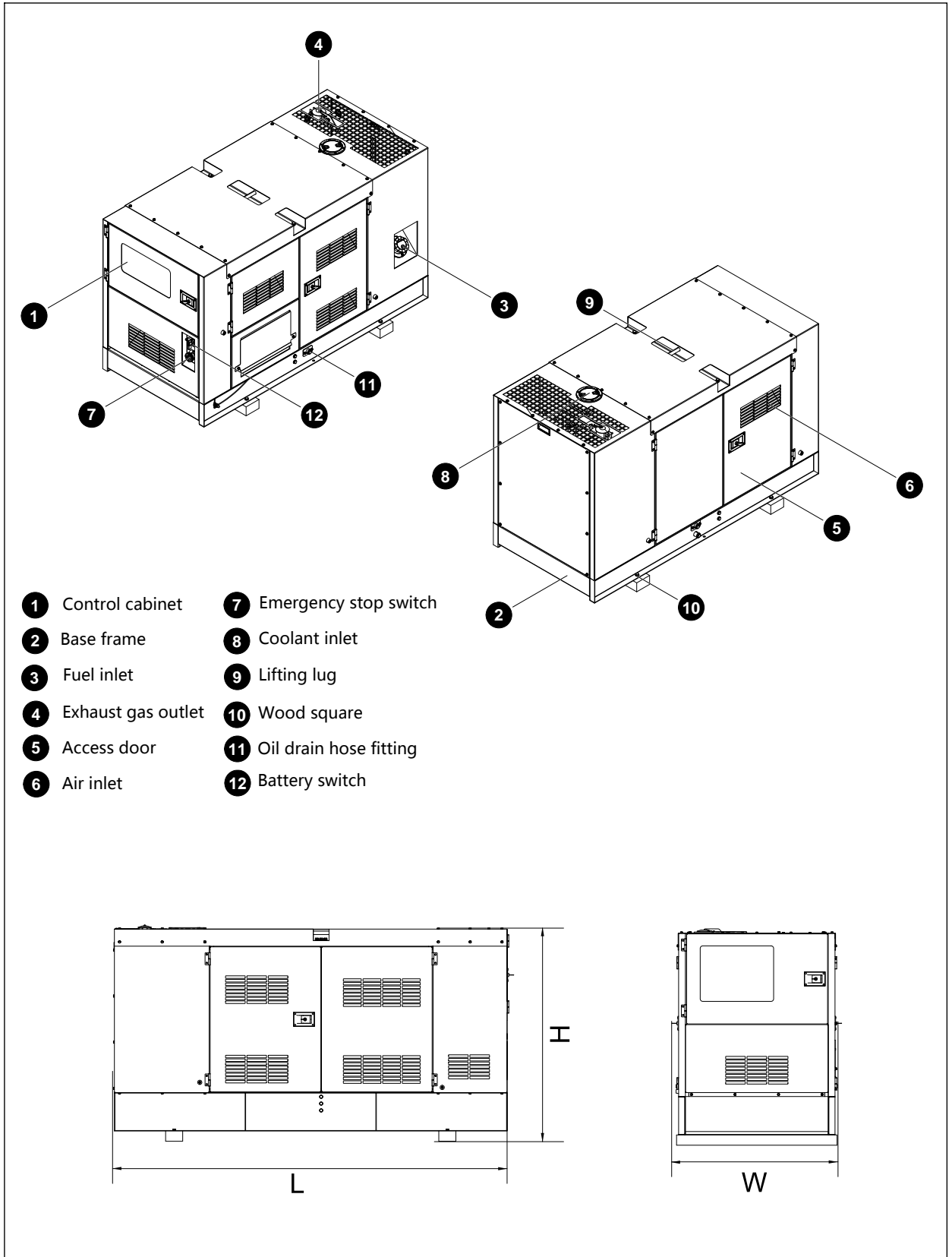


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition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

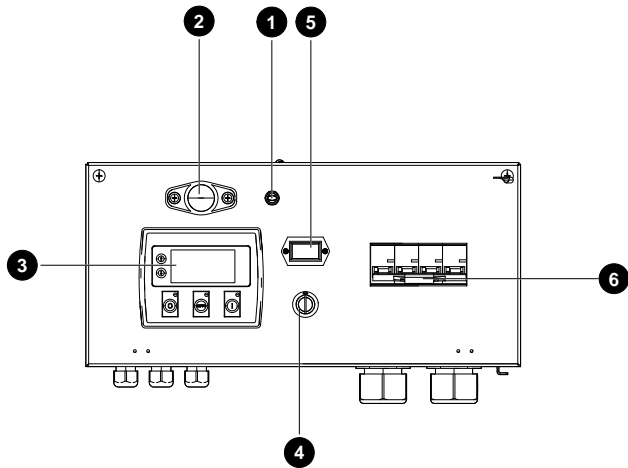
Standard Control Function

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

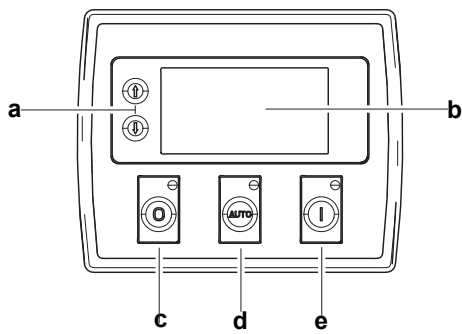
4 Overall Dimensions



5 Control System



Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Control module
4	Key switch
5	Time counter
6	Main circuit breaker



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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