

# SPECIFICATION

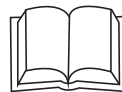


*Power Link the World*

## **MODEL QSV60PS QSV SERIES (FOR 50Hz DIESEL GENSET)**

Revision: A2 (12/21)

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# QSV series QSV60PS

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



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance European (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 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.

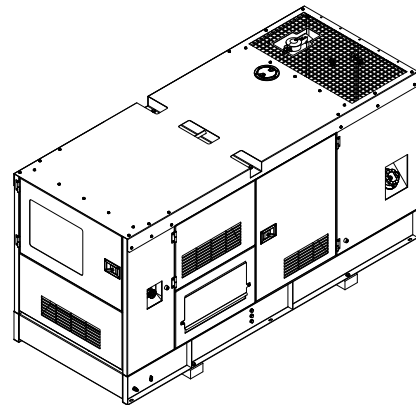
## 2 General Features

- Perkins engine 1103A-33TG2
- Close coupled to a Leroy Somer TAL-A-42-H
- Microprocessor control module PLC-920
- NADER main circuit breaker: 3-Phase 100A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited , SHUNT
- A.V.R.Model: SX440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V 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 forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 8 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

### General technical data

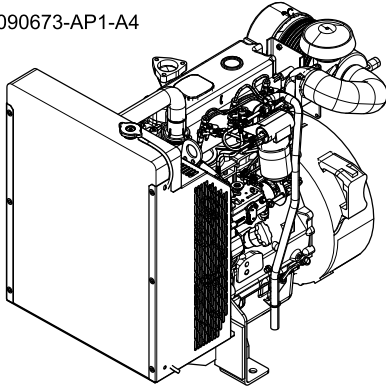


Model.....	QSV60PS
Structure type .....	R
Tank capacity.....	120L
Dry weight.....	1140kg
Noise level @7m .....	60dB(A)
Dimensions L×W×H.....	2350×946×1233.5mm
Standby Power .....	62.5kVA/50kW
Prime Power .....	60kVA/48kW

Voltage	380V	400V	415V	440V	
Ampere	91.2A	86.6A	83.5A	78.7A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	7.2	10.4	13.9	15.4

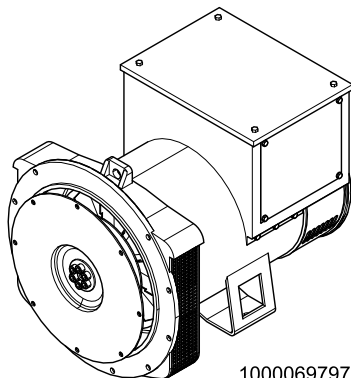
## Diesel Engine

1000090673-AP1-A4



Engine Manufacturer/Brand .....	Perkins
Engine Model .....	1103A-33TG2
Dimensions L×W×H.....	1049×634×951mm
Dry Weigh (approx.) .....	420kg
Number of Cylinders.....	3
Bore.....	105mm
Stroke .....	127mm
Displacement.....	3.3L
Compression Ratio .....	17.25
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance .....	≤8kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel.....	RF75-T-96 / DIN EN590 / BS2869 class A2
Type of Oil .....	API-CG4/ CH4
Oil Capacity .....	8.31L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	10.2L
Back Pressure .....	≤10kPa
Standby Power .....	60.5kW
Prime Power .....	55kW
Fuel Consumption(100%load).....	13.9L/h

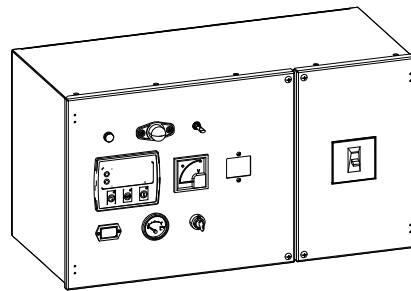
## Alternator



1000069797-AP1-A5

Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	TAL-A-42-H
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.....	0.15m³/s
Voltage Regulation .....	±0.5%
Total harmonic TGH / THC .....	< 4%
Telephone Interference.....	THF<2%;TIF<50

## PLC-920 Control System

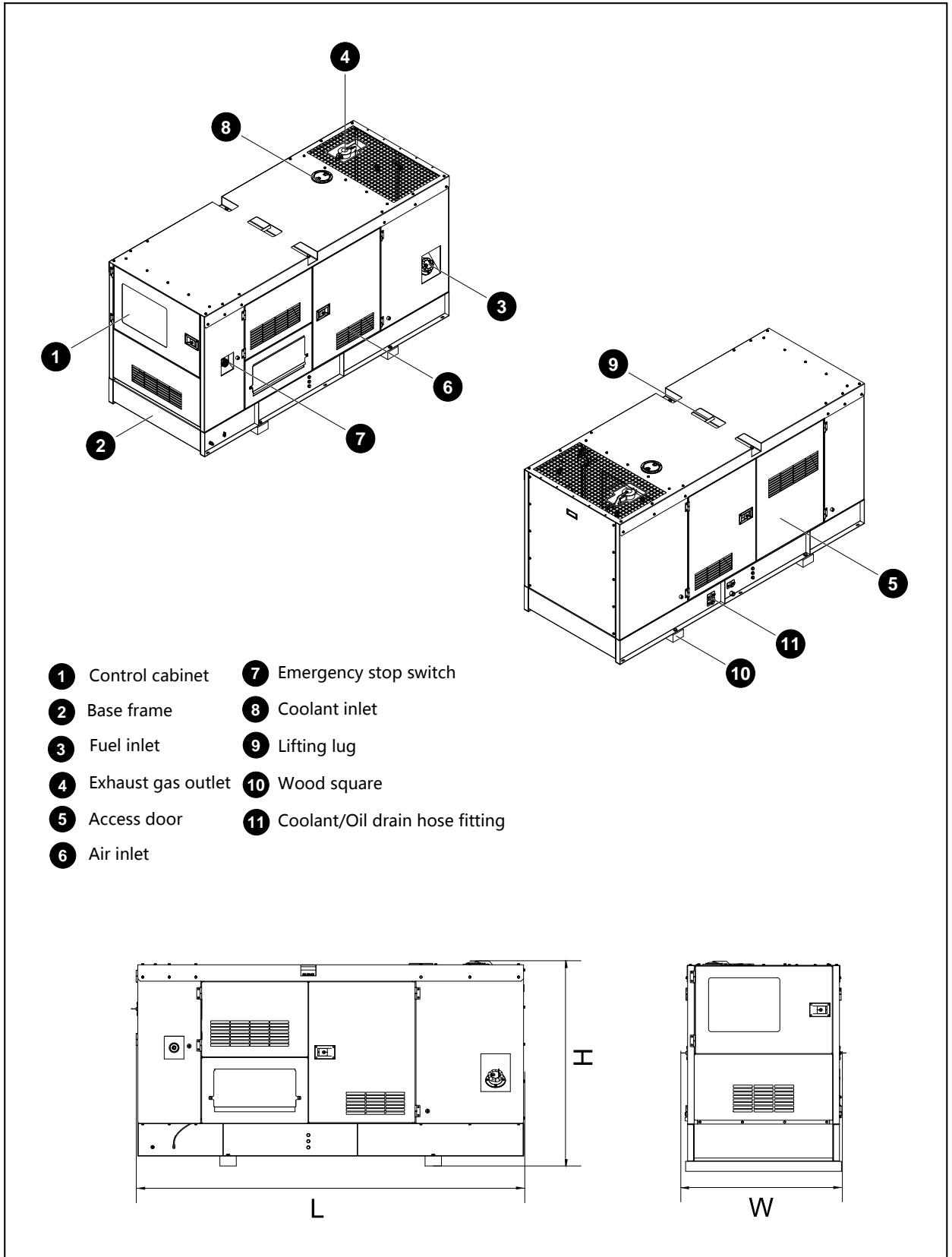


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

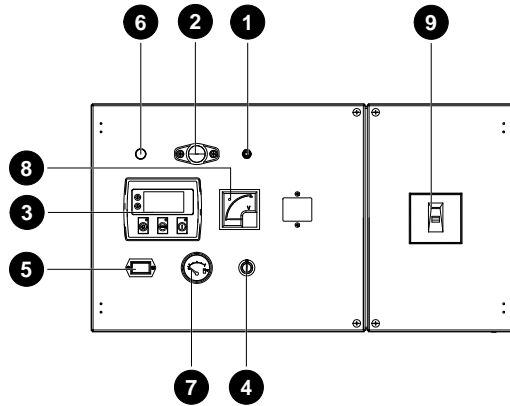
### Standard Control Function

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

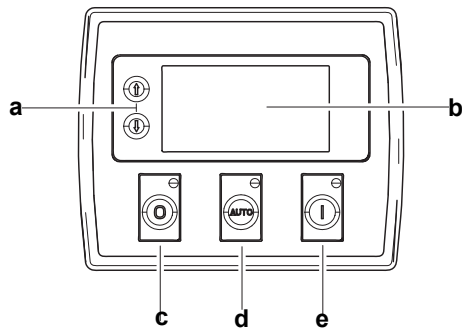
## 4 Overall Dimensions



## 5 Control System



序号	描述
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Control module
4	Key switch
5	Time counter
6	Charge indicator
7	Fuel level meter
8	Voltage meter
9	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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