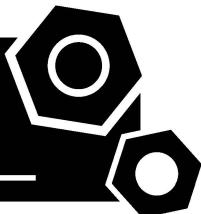


Generator set
Sound-proof type
QSV45KS

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite 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.

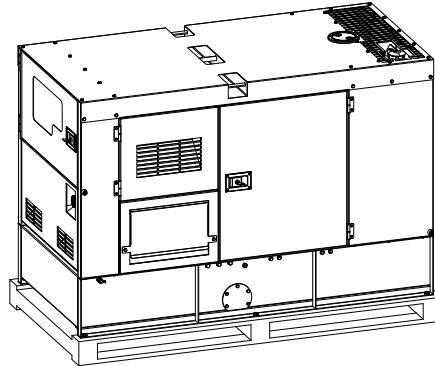
2 General Features

- Kubota engine V3800DI-T-BG
- Close coupled to Leroy Somer TAL alternator TAL042-F
- Microprocessor control module PLC-920
- Main circuit breaker: 63A
- 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

- 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 8 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

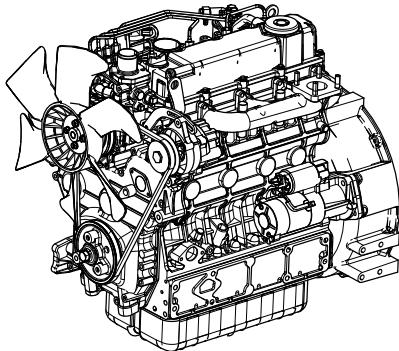
General technical data



Model.....	QSV45KS
Tank capacity.....	340L
Dry weight.....	1124kg
Sound pressure level @ 7m	67.9dBA
Dimensions LxWxH.....	2300x946x1735mm
Standby Power	50kVA/40kW
Prime Power.....	45kVA/36kW

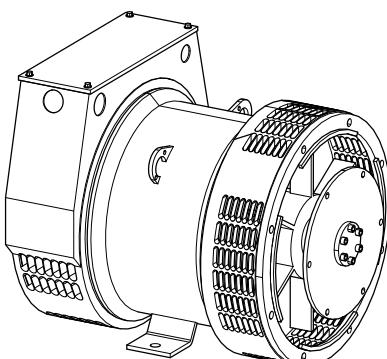
Voltage	380V	400V	415V	440V
Ampere	68.4A	65.0A	62.6A	59.0A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	N/A	5.4	8.2	10.7
				11.8

Diesel engine



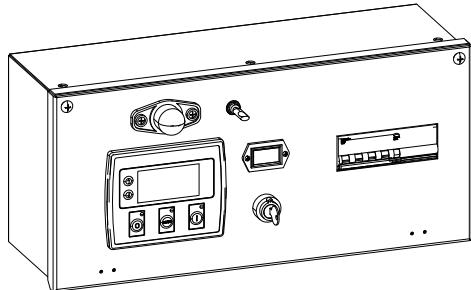
Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	V3800DI-T-BG
Dimensions L×W×H.....	745×549×794mm
Dry Weigh (approx.)	288kg
Number of Cylinders.....	4
Bore	100mm
Stroke	120mm
Displacement.....	3.769L
Compression Ratio	19.0
Type of Injection	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	1.96kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	Diesel Fuel No.2-D(ASTM D975)
Type of Oil	Class CF lubricating oil
Oil Capacity	13.2L
Type of Coolant	Glycol mixture
Coolant Capacity	8.2L
Back Pressure	≤7.07kPa
Standby Power	42.7kW
Prime Power	38.8kW
Fuel Consumption(100%load).....	10.7L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer TAL
Alternator Model	TAL042-F
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.....	0.10m³/s(50HZ),0.13m³/s(60HZ)
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

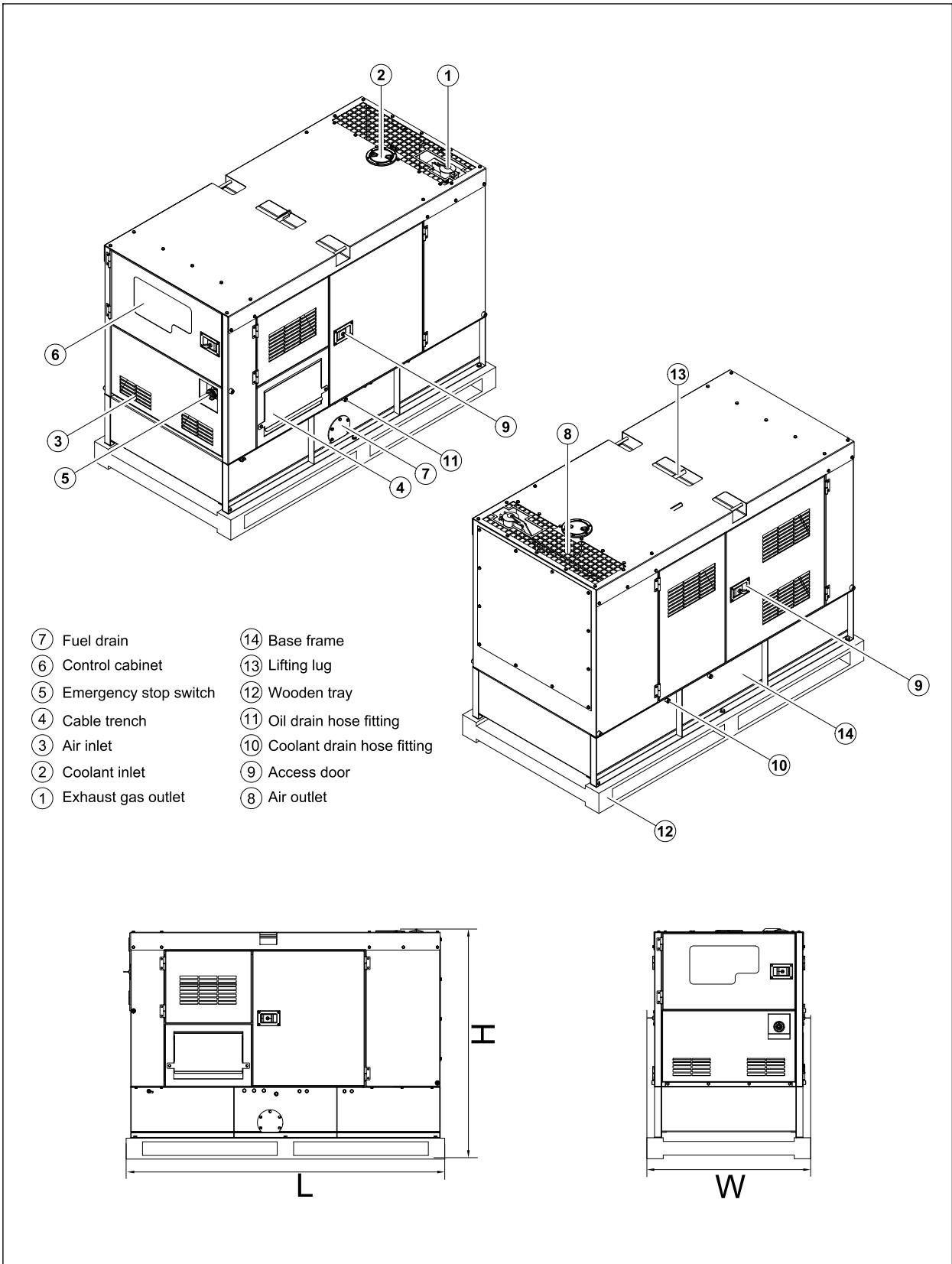


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

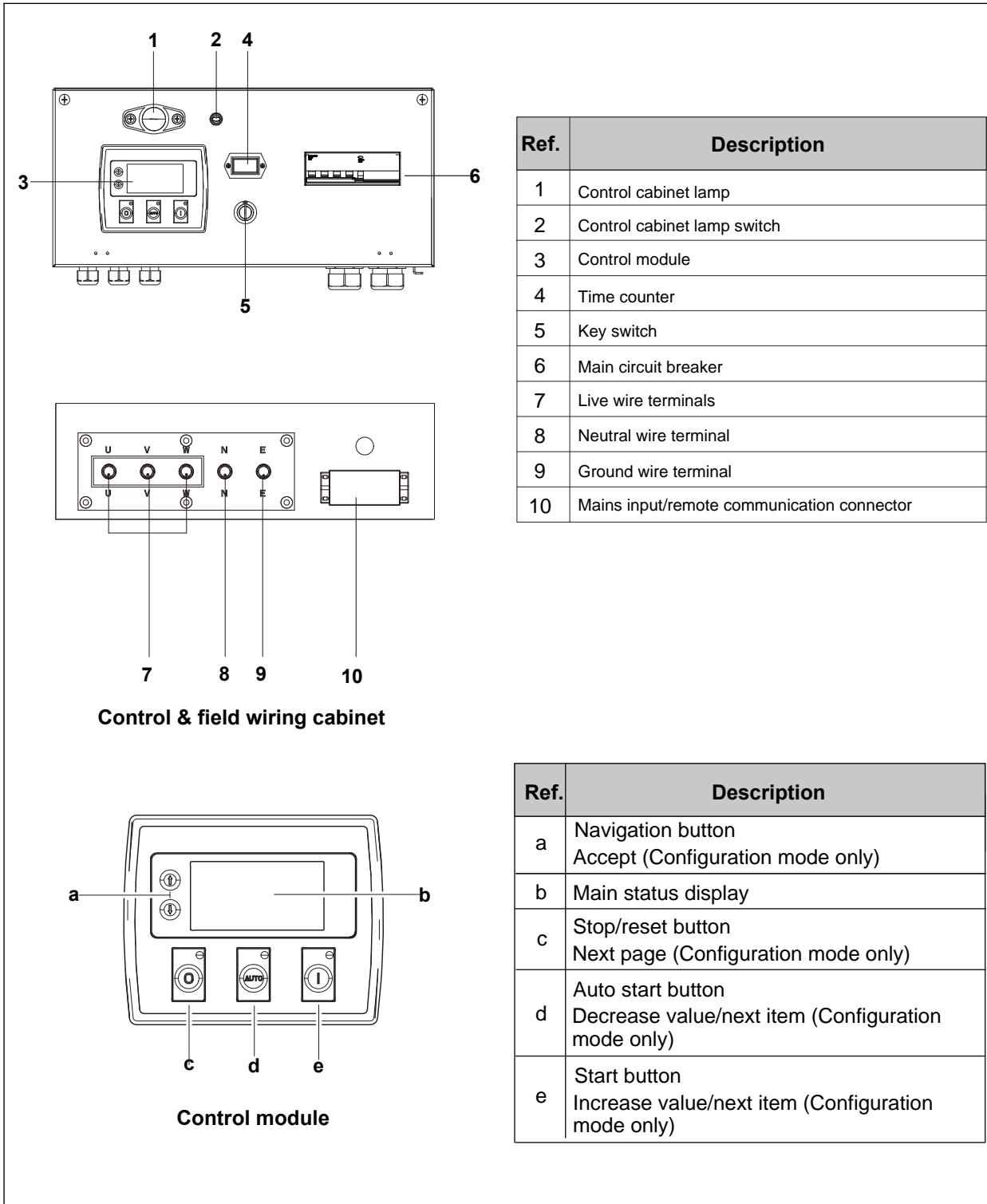
Standard Control Function

- 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



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