

SPECIFICATION



Power Link the World

MODEL VR40X6S

VR SERIES

(FOR 60Hz DIESEL GENSET)

Revision: A2 (12/22)

To inquire the latest revision of
document, visit our website at:
www.powerlinkworld.com



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

- 1x12V/60AH 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 5 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

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 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

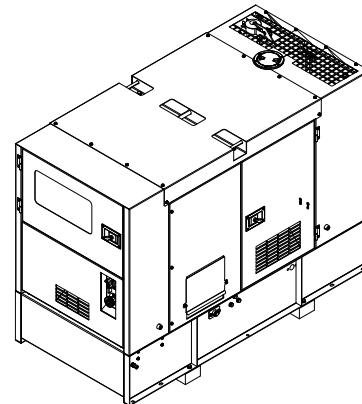
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- PowerLink engine VR4-3.2TG2
- Close coupled to PowerLink alternator PL2A
- Microprocessor control module PLC-920
- Main circuit breaker: 163A
- Rotate speed governor: EFC
- Excitation System: Self Excited,SHUNT
- A.V.R.Model: SX440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector

3 Equipment Specification

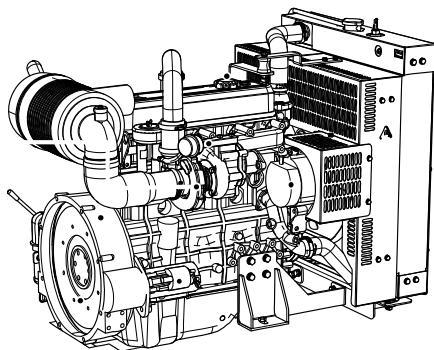
General technical data



Model.....	VR40X6S
Tank capacity.....	80L
Dry weight.....	1683kg
Sound pressure level @ 7m	67.4dBA
Dimensions L×W×H.....	2550x1081x1749mm
Standby Power	55kVA/44kW
Prime Power	50kVA/40kW

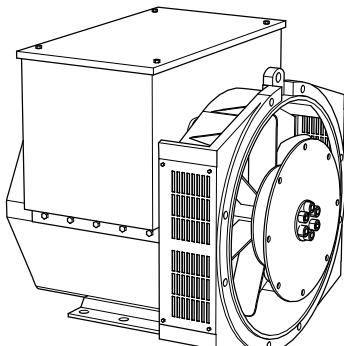
Voltage	208V	220V	230V	240V
Ampere	83.3A	78.7A	75.3A	72.2A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
60Hz (L/h)	3.7	7.2	10.4	14.1
				16.0

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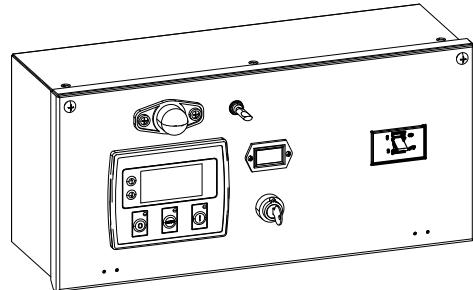
Engine Manufacturer/Brand.....	PowerLink
Engine Model.....	VR4-3.2TG2
Dimensions L×W×H.....	750x620x766mm
Dry Weigh (approx.)	275Kg
Number of Cylinders.....	4
Bore	98mm
Stroke	105mm
Displacement.....	3.2L
Compression Ratio.....	18.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	$\leq 4\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	API CF/SE or CCMCF4
Oil Capacity	8L
Type of Coolant	Glycol mixture
Coolant Capacity	14.7L
Back Pressure	$\leq 10\text{kPa}$
Standby Power	55kW
Prime Power	50kW

Alternator



Alternator Manufacturer/Brand	PowerLink
Alternator Model	PL2A
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	N/A
Voltage Regulation	$\pm 1.0\%$
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System

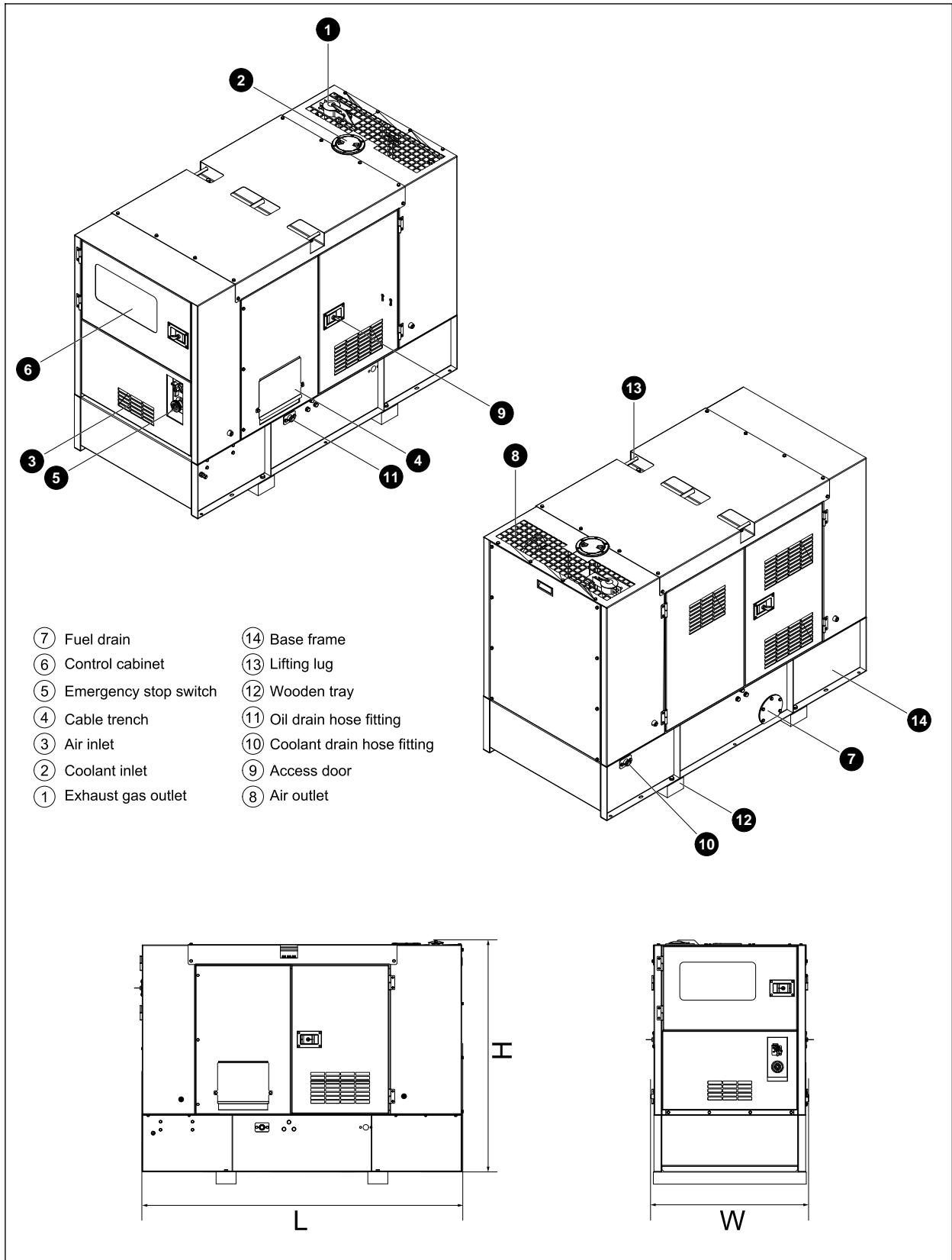


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

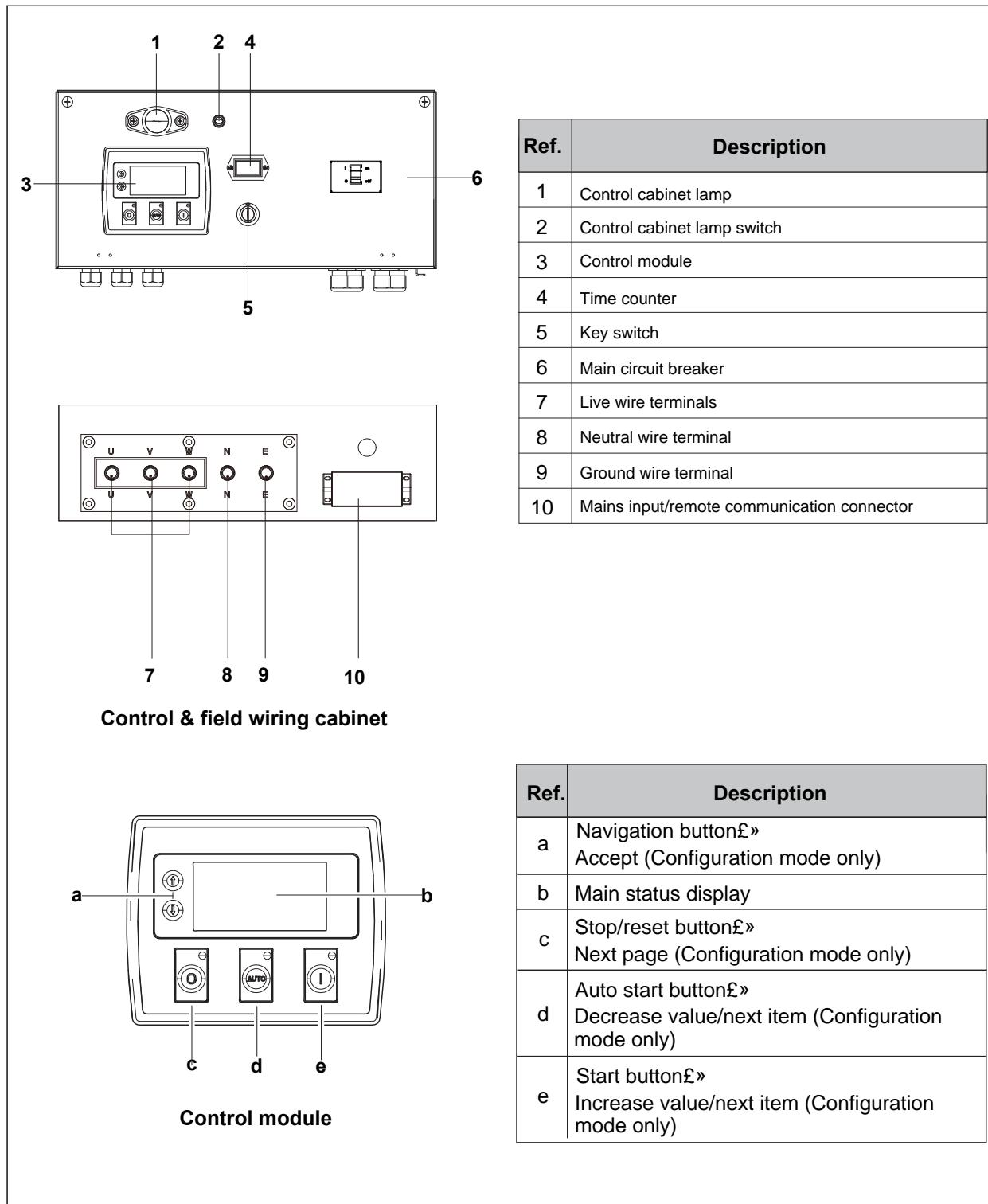
Standard Control Function

- 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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