## **SPECIFICATION**



# WODEL VR10XS-AU VR SERIES (FOR 50Hz DIESEL GENSET)

Revision: A2 (10/21)

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#### 1 Standards & Conditions

#### **Design Standards**

The designs and the productions are in conformity with:

- Conformite Europeenne (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 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.

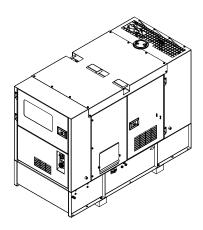
#### 2 General Features

- PowerLink engine VR3-1.4G1
- Close coupled to PowerLink alternator PL1B
- Microprocessor control module PLC-920
- Main circuit breaker: 16A
- 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
- 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 32 hours running
- · Drain points for fuel tank
- · Operator's Manual / Specifications

#### 3 Equipment Specification

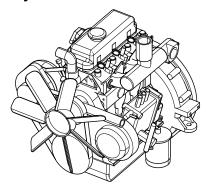
#### General technical data



Model	VR10XS-AU
Tank capacity	90L
Dry weight	685kg
Noise level @7m	66.8dBA
Dimensions L×W×H	1600x790x1145.5mm
Standby Power	11kVA/9kW
Prime Power	10kVA/8kW

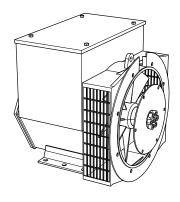
Voltage	380V		400V		415V		440V	
Ampere	15.2	15.2A		4.4A	13.9A		13.1A	
Genset Fuel Consumption								
Frequency	//Load	25	5%	50%	75%	10	0%	110%
50Hz (L/h) N/		/A	1.4	2.0	2	.8	3.1	

#### **Power System**



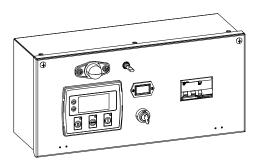
Engine Manufacturer/Brand	PowerLink
Engine Model	VR3-1.4G1
Dimensions L×W×H	569x525x565mm
Dry Weigh (approx.)	165Kg
Number of Cylinders	3
Bore	80mm
Stroke	90mm
Displacement	1.4L
Compression Ratio	18
Type of injection	Direct injection
Intake System	Natural aspirated
Intake Resistance	≦5kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel	0#ASTM2
Type of Oil	CF4/SG15W-40
Oil Capacity	4.0L
Type of Coolant	Glycol mixture
Coolant Capacity	3.0L
Back Pressure	≦10.1kPa
Standby Power	11kW
Prime Power	10kW

#### **Alternator**



Alternator Manufacturer/Brand	PowerLink
Alternator Model	PL1B
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	i < 1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

#### **PLC-920 Control System**

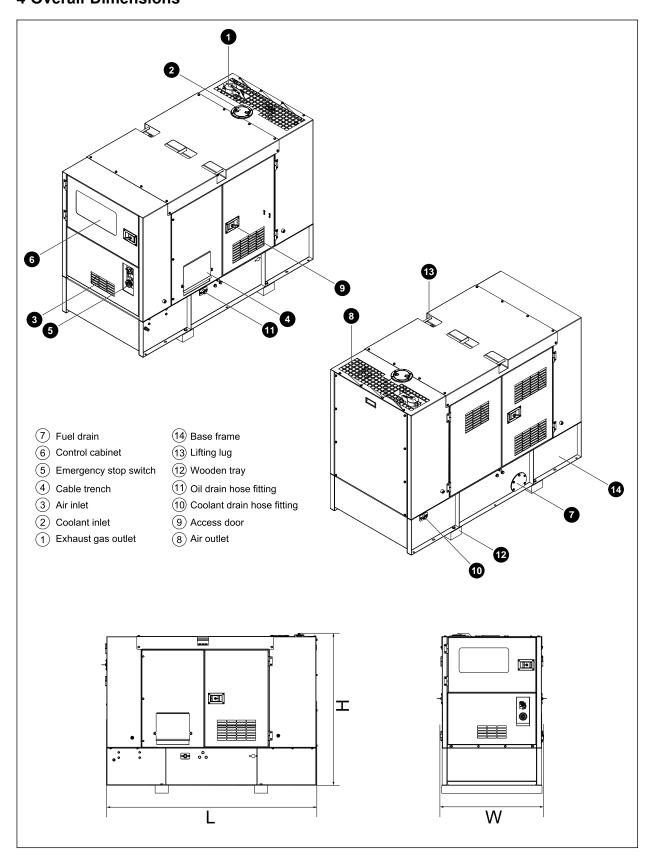


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

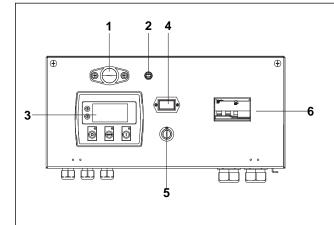
#### **Standard Control Function**

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

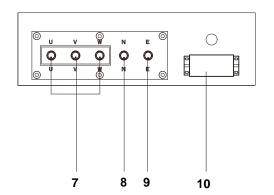
#### **4 Overall Dimensions**



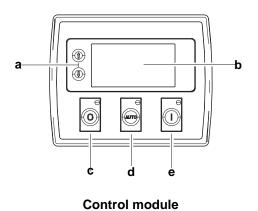
### 5 Control System



Description
Control cabinet lamp
Control cabinet lamp switch
Control module
Time counter
Key switch
Main circuit breaker
Live wire terminals
Neutral wire terminal
Ground wire terminal
Mains input/remote communication connector



Control & field wiring cabinet



	Ref.	Description
	а	Navigation button Accept (Configuration mode only)
	Main status display	
	С	Stop/reset button Next page (Configuration mode only)
	d	Auto start button Decrease value/next item (Configuration mode only)
	е	Start button Increase value/next item (Configuration mode only)

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## **VR SERIES DIESEL GENSET**

# **VR10XS-AU**

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