

208-480 Volt

VD150-02FT4MP 60 Hz / 1800 RPM

150 kWe / 150 kWe Standby / Prime

### Ratings

	240V	208V	240V	480 <b>V</b>	Multi-Voltage
Phase	1	3	3	3	3 / 1
PF	1.0	0.8	0.8	0.8	0.8 / 1.0
Hz	60	60	60	60	60
Generator Model	431CSL6206	431CSL6204	431CSL6204	431CSL6204	431CSL6206
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD CONFIGURABLE
Standby					
kWe	150	150	150	150	150
AMPS	625	521	452	226	625/521/452/226
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime					
kWe	150	150	150	150	150
AMPS	625	521	452	226	625/521/452/226
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

## Standard Equipment

#### Engine

- ▶ Radiator Cooled Unit Mounted (55°C)
- ▶ Blower Fan & Fan Drive
- ► Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/Valve
- ▶ Governor Electronic Isochronous
- ▶ 24V Battery System & Cables
- ► Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connector
- ▶ EPA Certified Tier 4 Final

#### Generator

- ▶ Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± .25% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 105°C Standby Temperature Rise
- ▶ 105°C Prime Temperature Rise
- ▶ 100% of Rated Load One Step
- ▶ 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

#### **Additional**

- ▶ Single Source Supplier
- ▶ Microprocessor Based Digital Control
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base Formed Steel
- ▶ Level 3 Enclosure
- ▶ Trailer with Integrated Fuel Tank
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ SCR Catalyst / Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ▶ Jacket Water Heater -20°F 2500W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Color White

VD150-02FT4MP 1 of 4

#### 150 kWe / 150 kWe



## Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	470 (7.70)
Model:	TAD871VE	Bore - in. (cm) x Stroke - in. (cm):	4.33(11.0) x 5.31 (13.5)
Туре:	4-Cycle	Compression Ratio:	17.5:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	252 (185)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	709 (376)	709 (376)
Gas Volume at Stack Temp: CFM (m³/min)	886 (25.1)	886 (25.1)
Maximum Allowable Exhaust Restriction (Post SCR Cat.): in. H <sub>2</sub> O (kPa)	32.0 (8.00)	32.0 (8.00)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	123 (465)	123 (465)
Heat Rejection to Coolant: BTUM (kW)	7,285 (128)	7,285 (128)
Heat Rejection to CAC: BTUM (kW)	1,666 (29.3)	1,666 (29.3)
Heat Radiated to Ambient: BTUM (kW)	2,135 (37.4)	2,135 (37.4)
Air Requirements		
Aspirating: CFM (m³/min)	445 (12.6)	445 (12.6)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	16,961 (480)	16,961 (480)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications	
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	11.5 (43.5)	11.5 (43.5)
At 75% of Power Rating: gal/hr (lit/hr)	9.62 (36.4)	9.62 (36.4)
At 50% of Power Rating: gal/hr (lit/hr)	6.81 (25.8)	6.81 (25.8)
DEF Consumption (% of fuel consumption)	± 6.00%	± 6.00%
Fluids Capacity		
Total Oil System: gal (lit)	7.13 (27.0)	7.13 (27.0)
Engine Jacket Water Capacity: gal (lit)	4.50 (17.0)	4.50 (17.0)
System Coolant Capacity: gal (lit)	11.6 (43.9)	11.6 (43.9)
DEF Tank Capacity: gal (lit)	18.5 (70.0)	18.5 (70.0)

#### <u>Deration Factors</u>

Rated Power is available up to 4,921 Ft (1500m) at ambient temperatures to 122°F (50°C) standby and prime. Consult factory for site conditions above these parameters.

VD150-02FT4MP 2 of 4

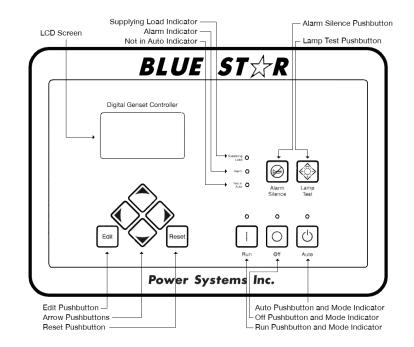
#### 150 kWe / 150 kWe



### DGC-2020 Control Panel

#### **Standard Features**

- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ► Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible



## Convenience Panel

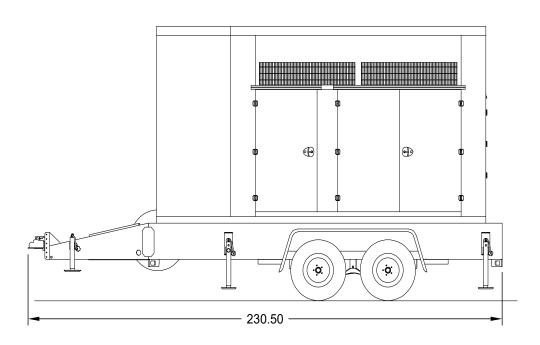
- ▶ 2-50A 125/250VAC 3P4W Twist Lock Non-Nema CS6369
- ▶ 1-30A 125/250VAC 3P4W Twist Lock Nema L14-30R
- ▶ 2-20A 120VAC Duplex GFCI Nema 5-20R
- ▶ Thumb Screw Terminals for 2-Wire Remote Start
- ▶ 20A 240VAC Male Receptacle for Jacket Water Heater Shore Power Connection
- ▶ 15A 120VAC Male Receptacle for Battery Charger Shore Power Connection
- ▶ 9-400A Rated Female Cam Style Locking Receptacles for Load Connection

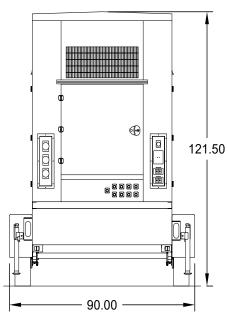
VD150-02FT4MP 3 of 4

#### 150 kWe / 150 kWe



### **Dimensions**





All specification sheet dimensions are represented in inches.

Distributed By:

All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions. Materials and specifications subject to change without notice.



Blue Star Power Systems, Inc.

2250 Carlson Drive North Mankato, Minnesota 56003

Phone + 1 507 345 1776

bluestarps.com quote.bluestarps.com sales@bluestarps.com

VD150-02FT4MP 4 of 4