BLUE ST R Power Systems Inc.

Diesel Product Line

208-480 Volt

VD550-02FT4MP

60 Hz / 1800 RPM

550 kWe / 500 kWe

Standby / Prime

Ratings

	208V	240V	480V	Multi-Voltage
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	572RSL6431	572RSL6431	572RSL6425	572RSL6431
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD Configurable
Standby kWe	550	550	550	550
AMPS	1911	1656	828	1911/828
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime kWe	500	500	500	500
AMPS	1737	1505	753	1737/753
Temp Rise	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)
- SCR Catalysts / Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 4 Final

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- $-\pm 0.25\%$ Voltage Regulation
- 4 Pole, Rotating Field
- 130°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
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base Channel Steel
- Level 3 Sound Attenuated Enclosure
- Trailer with Integrated 550 Gallon Fuel Tank
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20°F 5000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- 1 Year / 1500 Hour Prime Warranty
- Standard Color White

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Diesel Product Line

550 kWe / 500 kWe



Application Data

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Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.12)
Model:	TWD1672GE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.50 (16.5)
Type:	4-Cycle	Compression Ratio:	16.8:1
Aspiration:	Turbo Charged, H2O to Air CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	836 (615)
Exhaust System		Standby	Prime
Gas Temp. (Stack): °F (°C)		831 (444)	793 (423)
Gas Volume at Stack Temp: CF	M (m³/min)	4,347 (123)	4,025 (114)
Maximum Allowable Exhaust Re	estriction (Post DPF): in. H ₂ O (kPa)	40.0 (10.0)	40.0 (10.0)
Cooling System			
Ambient Capacity of Radiator:	°F (°C)	131 (55.0) 131 (55	
Maximum Allowable Static Pres	ssure on Rad. Exhaust: in. H ₂ O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (I	it/min)	95.1 (360) 95.1 (3	
Heat Rejection to Coolant: BTL	JM (kW)	12,682 (223) 11,544 (
Heat Rejection to CAC: BTUM	(kW)	11,715 (206) 10,635 (18	
Heat Radiated to Ambient: BTL	JM (kW)	4,253 (74.4)	3,842 (67.2)
Air Requirements			
Aspirating: CFM (m³/min)		1,646 (46.6)	1,603 (45.4)
Air Flow Required for Rad. Coo	led Unit: CFM (m³/min)	29,894 (846)	29,894 (846)
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)		39.9 (151.0)	35.9 (136.0)
At 75% of Power Rating: gal/hr (lit/hr)		28.8 (109.0)	26.0 (98.0)
At 50% of Power Rating: gal/hr (lit/hr)		19.1 (72.0)	17.5 (66.0)
DEF Consumption (% of fuel co	onsumption)	± 6.00%	± 6.00%
Fluids Capacity			
Total Oil System: gal (lit)		12.7 (48.0)	12.7 (48.0)
Engine Jacket Water Capacity:	gal (lit)	8.70 (33.0)	8.70 (33.0)
System Coolant Capacity: gal (l	lit)	15.9 (60.0)	15.9 (60.0)

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

DEF Tank Capacity: gal (lit)

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18.5 (70.0)

18.5 (70.0)

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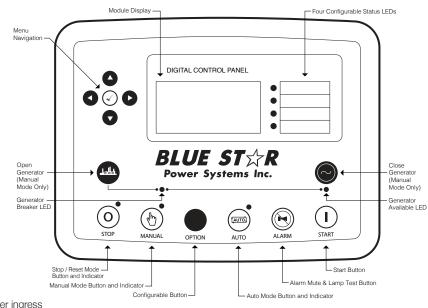
550 kWe / 500 kWe



DCP7310 Control Panel

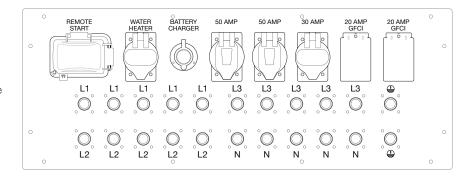
Standard Features

- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- 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
- 30A 240VAC Male Receptacle for Jacket Water Heater Shore Power Connection
- 15A 120VAC Male Receptacle for Battery Charger Shore Power Connection
- 22-400A Rated Female Cam Style Locking Receptacles for Load Connection
- * Drawing and configuration may vary from illustration. All drawings and dimensions subject to change without notice.



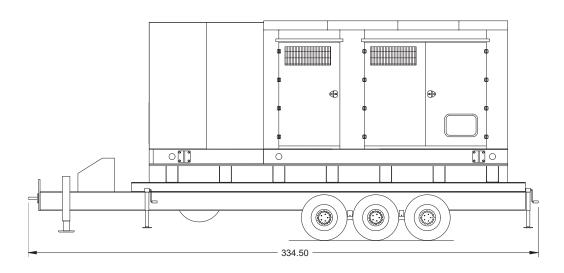
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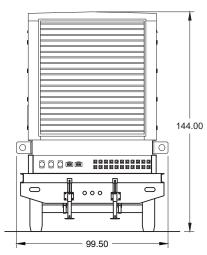
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Dimensions





- Approximate Ship Weight: 24,750 lbs.
- Approximate Wet Weight: 28,750 lbs.
- Weights based on standard trailer package. Additional options may increase weight.
- Sound data measured at 23 feet (7 meters) in accordance with ISO 8528-10.

	No Load	Full Load
Sound Data	73 dBA	75 dBA

Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures and fuel tanks are based on the standard standby unit configuration.
 Any deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.



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