# BLUE ST R

# Power Systems Inc.

# Diesel Product Line

208-600 Volt

VD600-02FT4 60 Hz / 1800 RPM

600 kWe / 570 kWe Standby / Prime

Ratings				
	208V	240V	480V	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	S6L1D-C	S6L1D-C	HCI534F	HCI534F
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby kWe	600	600	600	600
AMPS	2084	1806	903	723
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime kWe	570	570	570	570
AMPS	1980	1716	858	686
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)
- Radiator Duct Flange (OPU Only)
- 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)
- SRC Catalyst / Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 4 Final

#### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- $\pm$  0.50% 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
- UL 2200 & cUL Listed
- CSA Certified
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base Structural Steel
- 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 Colors White / Gray

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# Diesel Product Line

#### 600 kWe / 570 kWe



# Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.12)
Model:	TWD1673GE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.5 (16.5)
Type:	4-Cycle	Compression Ratio:	16.8:1
Aspiration:	Turbo Charged, H <sub>2</sub> O to Air CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	932 (695)
Exhaust System		Standby	Prime
Gas Temp. (Stack): °F (°C)		903 (484)	851 (455)
Gas Volume at Stack Temp: CF	FM (m³/min)	4,866 (138)	4,471 (127)
Maximum Allowable Exhaust F	Restriction: in. H <sub>2</sub> O (kPa)	40.0 (10.0)	40.0 (10.0)
Cooling System			
Ambient Capacity of Radiator:	°F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pres	ssure 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)	95.4 (361)	95.4 (361)
Heat Rejection to Coolant: BTL	JM (kW)	13,933 (245)	12,682 (222)
Heat Rejection to CAC: BTUM (kW)		12,284 (216)	11,829 (208)
Heat Radiated to Ambient: BTUM (kW)		12,092 (212)	11,468 (201)
Air Requirements			
Aspirating: CFM (m³/min)		1,805 (51.1)	1,699 (48.1)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)		30,742 (870)	30,742 (870)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory Fo	r Remote Cooled Applications
Fuel Consumption			
At 100% of Power Rating: gal/hr (lit/hr)		41.5 (157)	39.4 (149)
At 75% of Power Rating: gal/hr (lit/hr)		30.4 (115)	28.8 (109)
At 50% of Power Rating: gal/hr (lit/hr)		21.7 (82.0)	20.6 (78.0)
DEF Consumption (% of fuel consumption)		± 6.68%	± 6.68%
Fluids Capacity			
Total Oil System: gal (lit)		12.7 (48.0)	12.7 (48.0)
Engine Jacket Water Capacity: gal (lit)		8.72 (33.0)	8.72 (33.0)
System Coolant Capacity: gal (lit)		25.1 (95.0)	25.1 (95.0)
DEF Tank Capacity: gal (lit)		52.8 (200.0)	52.8 (200.0)

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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.

## Diesel Product Line

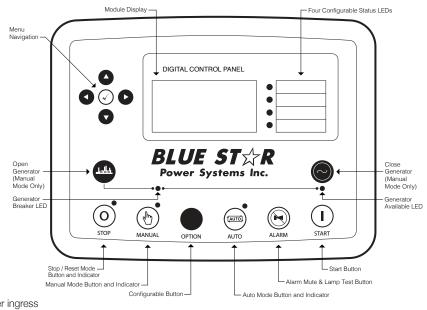
#### 600 kWe / 570 kWe



### 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

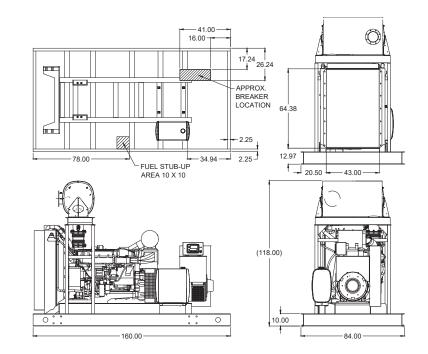


## Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	160 x 84 x 118 in	13,425
Level 1	198 x 84 x 122 in	15,325
Level 2	198 x 84 x 122 in	15,400
Level 3	252 x 84 x 122 in	16,050

Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load
OPU	91 dBA	94 dBA
Level 1	86 dBA	89 dBA
Level 2	82 dBA	84 dBA
Level 3	74 dBA	76 dBA



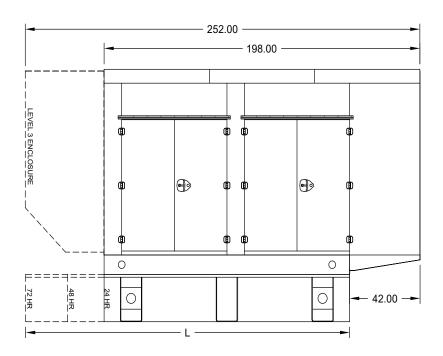
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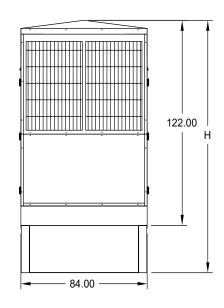
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## Enclosures & Fuel Tanks





- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- $\,-\,$  Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

	24 Hour 1000 Gallon	48 Hour 2000 Gallon	72 Hour 3000 Gallon
L	168.00	204.00	294.00
Н	148.00	158.00	158.00

#### 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 unit configuration. Any requested 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.



American Made

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