

Diesel Product Line

208-600 Volt

Standby

60 Hz / 1800 RPM

600 kWe

VD600-03

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	HCI534E	HCI534F
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	600	600	600	600
AMPS	2084	1806	903	723
Temp Rise	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°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)
- Critical Grade Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 2

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- \pm 0.50% Voltage Regulation
- 4 Pole, Rotating Field
- 125°C Standby 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 (Pad Type)
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

600 kWe



Application Data

Engine				
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.1)	
Model:	TWD1644GE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.50 (16.5)	
Туре:	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):	917 (674)	
Exhaust System			Standby	
Gas Temp. (Stack): °F (°C)			923 (495)	
Gas Volume at Stack Temp: CF	M (m³/min)		4,044 (114)	
Maximum Allowable Exhaust R	estriction: in. H2O (kPa)		40.2 (10.0)	
Cooling System				
Ambient Capacity of Radiator: °	°F (°C)		131 (55.0)	
Maximum Allowable Static Pres	sure on Rad. Exhaust: in. H2O (kPa)		0.50 (0.12)	
Water Pump Flow Rate: GPM (li	it/min)		95.4 (361)	
Heat Rejection to Coolant: BTU	M (kW)		13,990 (245)	
Heat Rejection to CAC: BTUM (kW)		8,360 (146)	
Heat Radiated to Ambient: BTU	IM (kW)		12,050 (211)	
Air Requirements				
Aspirating: CFM (m³/min)			1,649 (46.7)	
Air Flow Required for Rad. Cool	led Unit: CFM (m³/min)		28,198 (798)	
Air Flow Required for Heat Exch	nanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications		
Fuel Consumption				
At 100% of Power Rating: gal/h	ır (lit/hr)		39.2 (148)	
At 75% of Power Rating: gal/hr	(lit/hr)	30.4 (115)		
At 50% of Power Rating: gal/hr	(lit/hr)	21.0 (79.3)		
Fluids Capacity				
Total Oil System: gal (lit)			12.7 (48.0)	
Engine Jacket Water Capacity:	gal (lit)		6.60 (25.0)	
System Coolant Capacity: gal (li	it)		39.9 (151)	

Deration Factors: Rated Power is available up to 4,920 Ft (1,500 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

Diesel Product Line

600 kWe



Four Configurable Status LEDs

START

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Alarm Mute & Lamp Test Button

L Start Button

Close Generator (Manual Mode Only)

Generator Available LED

DCP7310 Control Panel

Standard Features

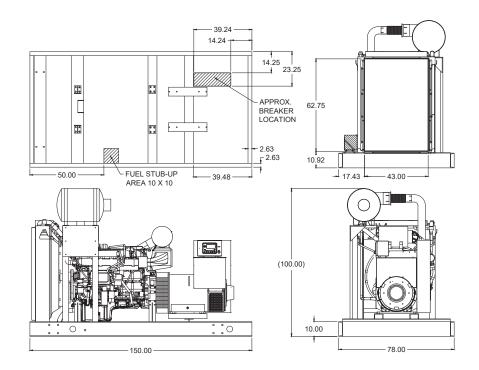
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator 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

	L x W x H	Weight Ibs		
OPU	150 x 78 x 100 in	10,775		
Level 1	200 x 78 x 110 in	12,600		
Level 2	200 x 78 x 110 in	12,700		
Level 3	255 x 78 x 110 in	13,200		

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

	No Load	Full Load		
OPU	92 dBA	94 dBA		
Level 1	87 dBA	90 dBA		
Level 2	82 dBA	84 dBA		
Level 3	74 dBA	76 dBA		



Module Display

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STO

Manual Mode Button and Indicator

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MANUA

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Configurable Button

DIGITAL CONTROL PANEL

BLUE STAR

Power Systems Inc.

OPTION

AUTO

AUTO

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ALARM

Auto Mode Button and Indicator

Menu Navigation

> Open Generator – (Manual Mode Only)

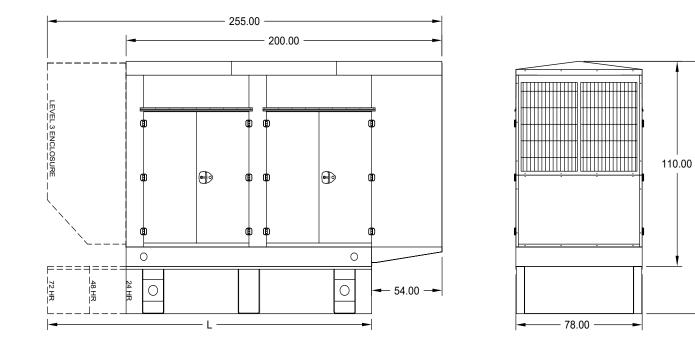
Generator — Breaker LED

Diesel Product Line

BLUE ST R Power Systems Inc.

600 kWe

Enclosures & Fuel Tanks



 All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards. 		24 Hour 900 Gallon	48 Hour 1800 Gallon	72 Hour 2700 Gallon
 Level 2 & 3 enclosures include sound attenuation foam 	L	150.00	228.00	336.00
 Level 3 enclosure includes frontal sound & exhaust hood. 	_			
 Enclosure height does not include exhaust stack. 	Н	140.00	146.00	146.00

American Owned

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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.

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Blue Star Power Systems, Inc.