# BLUE ST R Power Systems Inc.

Diesel Product Line

208-600 Volt

VD350-01 60 Hz / 1800 RPM

350 kWe Standby

## Ratings

	208V	240V	480 <b>V</b>	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	S4L1D-F41	S4L1D-F41	S4L1D-E41	S4L1S-E4
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	350	350	350	350
AMPS	1216	1054	527	421
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 3

#### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 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 Formed Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20°F 4000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

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#### 350 kWe



## **Application Data**

Engine				
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)	
Model:	TAD1352GE	Bore - in. (cm) x Stroke - in. (cm):	5.16 (13.1) x 6.22 (15.8)	
Type:	4-Cycle	Compression Ratio:	18.1:1	
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800	
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	537 (401)	
Exhaust System			Standby	
Gas Temp. (Stack): °F (°C)			995 (535)	
Gas Volume at Stack Temp: CFM (m³/mir	n)		2,391 (67.7)	
Maximum Allowable Exhaust Restriction	: in. H <sub>2</sub> O (kPa)		40.0 (10.0)	
Cooling System				
Ambient Capacity of Radiator: °F (°C)			131 (55.0)	
Maximum Allowable Static Pressure on F	Rad. Exhaust: in. H2O (kPa)		0.50 (0.12)	
Water Pump Flow Rate: GPM (lit/min)			87.0 (329)	
Heat Rejection to Coolant: BTUM (kW)			10,066 (177)	
Heat Rejection to CAC: BTUM (kW)			4,948 (87.0)	
Heat Radiated to Ambient: BTUM (kW)			7,110 (124)	
Air Requirements				
Aspirating: CFM (m³/min)			918 (26.0)	
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)			16,325 (462)	
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)			25.0 (94.6)	
At 75% of Power Rating: gal/hr (lit/hr)		19.2 (72.8)		
At 50% of Power Rating: gal/hr (lit/hr)			13.6 (51.6)	
Fluids Capacity				
Total Oil System: gal (lit)			9.50 (36.0)	
Engine Jacket Water Capacity: gal (lit)			5.28 (20.0)	
System Coolant Capacity: gal (lit)			11.7 (44.0)	

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Deration Factors: Rated Power is available up to 3,280 Ft (1,000 m) at ambient temperatures to 122°F (50°C).

Consult factory for site conditions above these parameters.

## Diesel Product Line

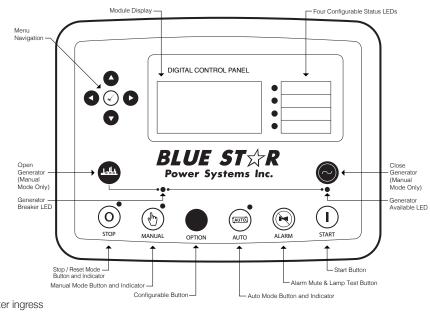
#### 350 kWe



### 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

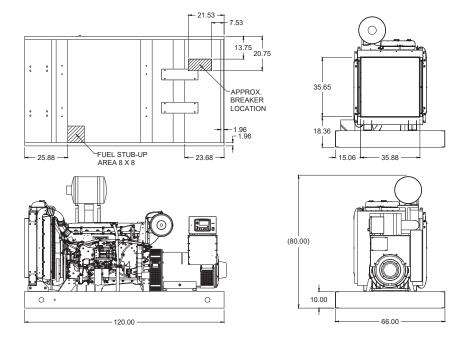


# Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	120 x 66 x 80 in	7,975
Level 1	156 x 66 x 94 in	9,225
Level 2	156 x 66 x 94 in	9,300
Level 3	196 x 66 x 94 in	9,600

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

	No Load	Full Load
OPU	87 dBA	89 dBA
Level 1	83 dBA	85 dBA
Level 2	78 dBA	80 dBA
Level 3	70 dBA	73 dBA



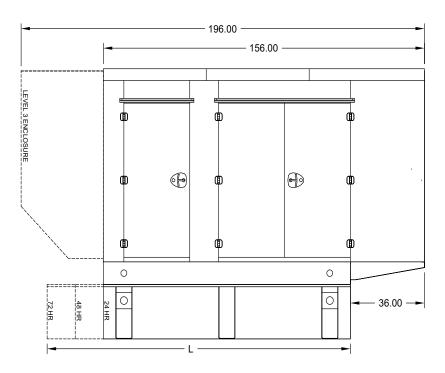
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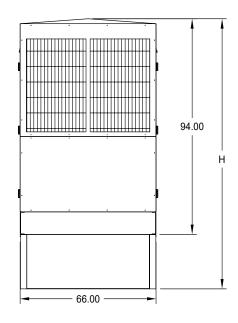
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## **Enclosures & Fuel Tanks**





- 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 710 Gallon	48 Hour 1420 Gallon	72 Hour 2130 Gallon
L	120.00	192.00	276.00
Н	126.00	130.00	130.00

#### Notes

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- 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

sales@bluestarps.com

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#### Blue Star Power Systems, Inc.

2250 Carlson Drive
North Mankato, Minnesota 56003
Phone + 1 507 345 1776
bluestarps.com
quote.bluestarps.com