

208-600 Volt

VD350-01 60 Hz / 1800 RPM

350 kWe Standby

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 | 433CSL6216 | 433CSL6216 | 433CSL6216 | 433PSL6248 |
| 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 | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°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 3

Listing Certifications

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ► CSA Certified
- ▶ Seismic Certified to IBC 2021
- ► NFPA 110 Compliant

Generator

- ▶ Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± 1% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°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
- ▶ Microprocessor Based Digital Control
- ▶ Interface Connection Box
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ► Critical Grade Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 4000W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ► Radiator Duct Flange (OPU Only)
- ▶ 2YR / 2000HR Standby Warranty
- ▶ Standard Colors White / Gray

VD350-01 1 of 4

350 kWe



25.0 (94.6)

19.2 (72.8) 13.6 (51.6)

9.50 (36.0)

5.28 (20.0)

11.7 (44.0)

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 | | | Standb |
| Gas Temp. (Stack): °F (°C) | | | 995 (535 |
| Gas Volume at Stack Temp: CFM (m | n³/min) | | 2,391 (67.7 |
| Maximum Allowable Exhaust Restric | tion: in. H ₂ O (kPa) | | 40.0 (10.0 |
| Cooling System | | | |
| Ambient Capacity of Radiator: °F (°C | D) | | 131 (55.0 |
| Maximum Allowable Static Pressure | on Rad. Exhaust: in. H ₂ O (kPa) | | 0.50 (0.12 |
| Water Pump Flow Rate: GPM (lit/mir | ٦) | | 87.0 (329 |
| Heat Rejection to Coolant: BTUM (kg | W) | | 10,066 (177 |
| Heat Rejection to CAC: BTUM (kW) | | | 4,948 (87.0 |
| Heat Radiated to Ambient: BTUM (k | W) | | 7,110 (124 |
| Air Requirements | | | |
| Aspirating: CFM (m³/min) | | | 918 (26.0 |
| Air Flow Required for Rad. Cooled L | Jnit: CFM (m³/min) | | 16,325 (462 |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | | Consult Factory For Remo | ote Cooled Applications |
| Fuel Consumption | | | |

Fluids Capacity

Total Oil System: gal (lit)

At 100% of Power Rating: gal/hr (lit/hr)

At 75% of Power Rating: gal/hr (lit/hr)

At 50% of Power Rating: gal/hr (lit/hr)

Engine Jacket Water Capacity: gal (lit)

System Coolant Capacity: gal (lit)

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.

VD350-01 2 of 4

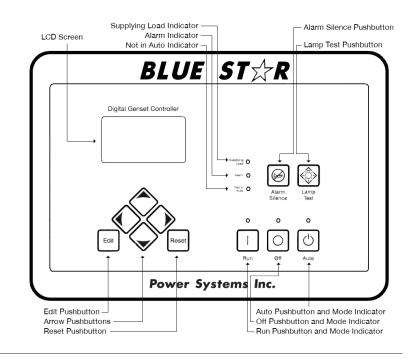
350 kWe



DGC-2020 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 RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ 15 Contact Outputs
- ▶ RS485 Communicator Interface
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible



Weights / Dimensions / Sound Data

| | LxWxH | Weight Ibs |
|---------|------------------|------------|
| OPU | 120 x 66 x 80 in | 7,775 |
| Level 1 | 156 x 66 x 94 in | 9,025 |
| Level 2 | 156 x 66 x 94 in | 9,100 |
| Level 3 | 196 x 66 x 94 in | 9,400 |

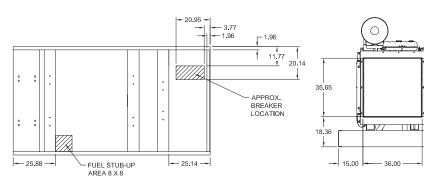
Please allow 6-12 inches for height of exhaust stack.

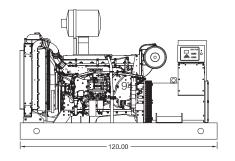
| | No Load | Full Load |
|---------|---------|-----------|
| OPU | 87 dBA | 89 dBA |
| Level 1 | 83 dBA | 85 dBA |
| Level 2 | 78 dBA | 80 dBA |

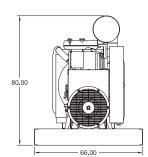
70 dBA

Level 3

73 dBA







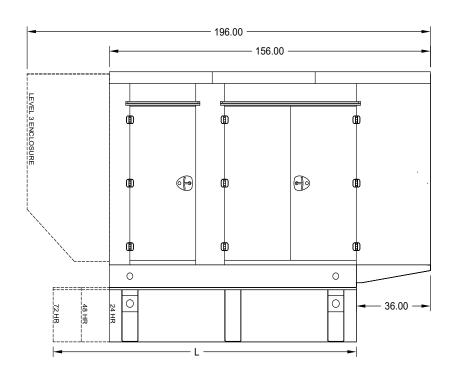
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

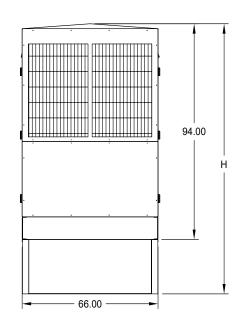
VD350-01 3 of 4

350 kWe



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 |

All specification sheet dimensions are represented in inches.

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

VD350-01

Distributed By:

4 of 4