

BLUE STAR

Power Systems Inc.

Diesel Product Line

208-600 Volt

VD250-01

60 Hz / 1800 RPM

250 kWe / 225 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	572RSL4027	432CSL6210	432CSL6210	432CSL6210	432PSL6246
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe	250	250	250	250	250
AMPS	1042	868	753	376	301
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available For Mobile Applications]					
kWe	225	225	225	225	225
AMPS	938	782	677	339	271
Temp Rise	105°C / 40°C	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)
- ▶ Flexible Fuel Connector
- ▶ EPA Certified Tier 3

Listing Certifications

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ▶ CSA Certified
- ▶ Seismic Certified to IBC 2012

Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1% 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

- ▶ 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)
- ▶ Single Source Supplier
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Colors - White / Tan / Gray

Diesel Product Line

250 kWe / 225 kWe



Application Data

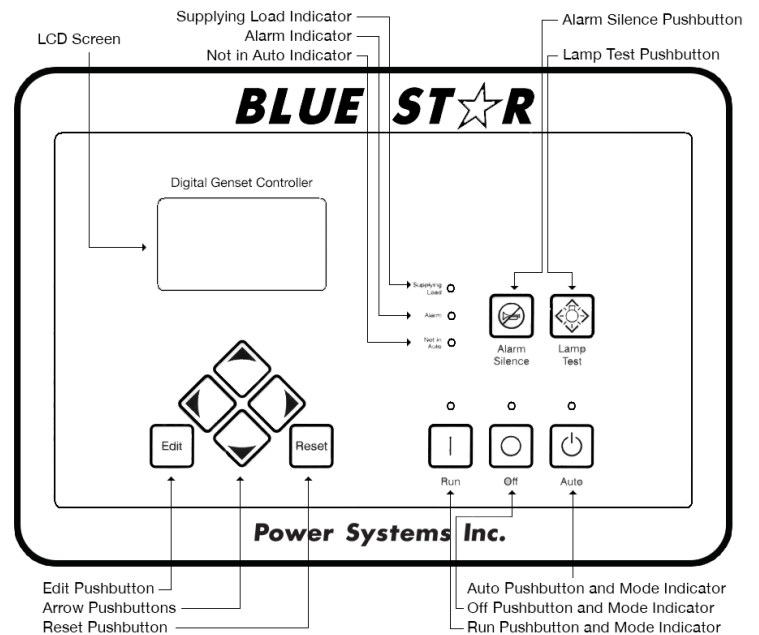
Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1350GE	Bore - in. (cm) x Stroke - in. (cm):	5.16 (13.1) x 6.22 (15.8)
Type:	4-Cycle	Compression Ratio:	18.0:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	382 (285)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	824 (440)	806 (430)
Gas Volume at Stack Temp: CFM (m³/min)	1,928 (54.6)	1,819 (51.5)
Maximum Allowable Exhaust Restriction: in. H₂O (kPa)	41.6 (10.4)	41.6 (10.4)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H₂O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	87.0 (329)	87.0 (329)
Heat Rejection to Coolant: BTUM (kW)	7,734 (136)	7,165 (126)
Heat Rejection to CAC: BTUM (kW)	3,981 (70.0)	3,526 (62.0)
Heat Radiated to Ambient: BTUM (kW)	2,312 (40.5)	2,312 (40.5)
Air Requirements		
Aspirating: CFM (m³/min)	840 (23.8)	795 (22.5)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	11,449 (324)	11,449 (324)
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)	18.7 (70.7)	17.3 (65.3)
At 75% of Power Rating: gal/hr (lit/hr)	14.3 (54.0)	13.2 (49.8)
At 50% of Power Rating: gal/hr (lit/hr)	9.71 (36.8)	9.19 (34.8)
Fluids Capacity		
Total Oil System: gal (lit)	9.50 (36.0)	9.50 (36.0)
Engine Jacket Water Capacity: gal (lit)	5.28 (20.0)	5.28 (20.0)
System Coolant Capacity: gal (lit)	6.34 (24.0)	6.34 (24.0)

Deration Factors

Rated Power is available up to 9,842 Ft (3,000 m) at ambient temperatures to 122°F (50°C) standby and prime.
Consult factory for site conditions above these parameters.

- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible

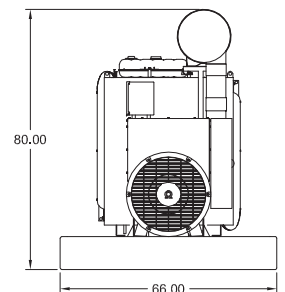
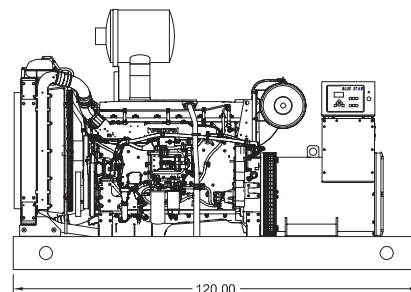


	L x W x H	Weight lbs
OPU	120 x 66 x 80 in	6,250
Level 1	156 x 66 x 94 in	7,475
Level 2	156 x 66 x 94 in	7,550
Level 3	196 x 66 x 94 in	7,850

Diagram illustrating the front elevation of the building with dimensions and structural details:

- Overall width: 25.91
- Distance from left edge to first vertical line: 10.47
- Distance from first vertical line to second vertical line: 1.96
- Distance from second vertical line to third vertical line: 1.96
- Distance from third vertical line to fourth vertical line: 13.71
- Distance from fourth vertical line to right edge: 20.14
- Distance from left edge to first vertical line: 31.69
- Distance from first vertical line to second vertical line: 25.13
- Structural details:
 - FUEL STUB-UP AREA 8 X 8 (indicated by a hatched rectangle)
 - APPROX. BREAKER LOCATION (indicated by a hatched rectangle)

	No Load	Full Load
OPU	86 dBA	88 dBA
Level 1	83 dBA	85 dBA
Level 2	77 dBA	79 dBA
Level 3	69 dBA	71 dBA



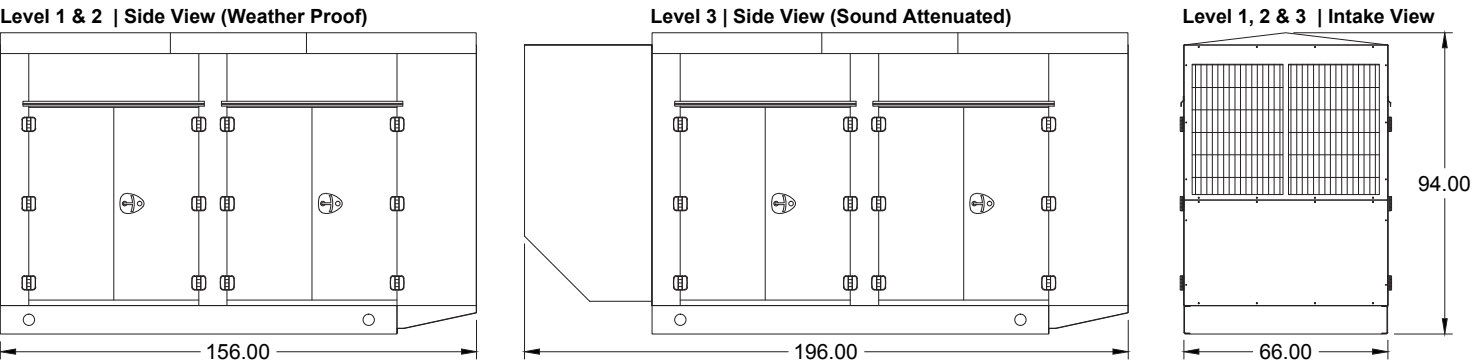
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Diesel Product Line

250 kWe / 225 kWe

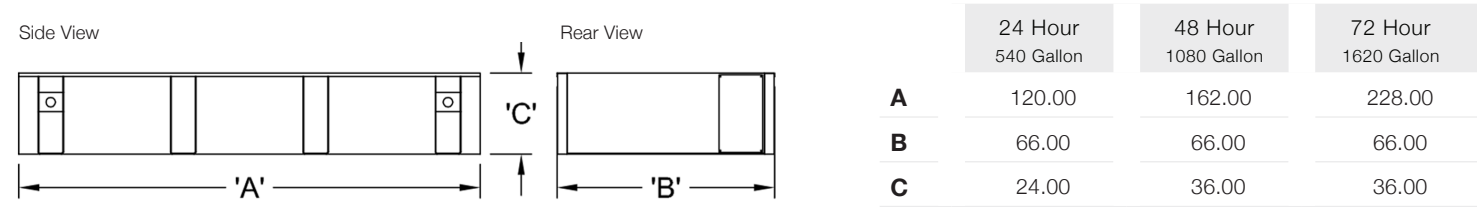


Enclosures



All enclosures are 150 MPH Wind Rated.
Level 2 & 3 enclosures include sound attenuation foam.
Level 3 enclosure includes frontal sound & exhaust hood.
*Enclosure height does not include exhaust stack.

Double Wall UL 142 Listed Fuel Tanks



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.



Distributed By:

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