

208-600 Volt

VD400-01

400 kWe / 360 kWe

Ratings

C	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	433CSL6220	433CSL6220	433CSL6220	433PSL6248
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby				
kWe	400	400	400	400
AMPS	1390	1204	602	482
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available For Mobile Applications]				
kWe	360	360	360	360
AMPS	1251	1084	542	434
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)
- 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/lsolation 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

60 Hz / 1800 RPM

Standby / Prime

400 kWe / 360 kWe

BLUE ST R Power Systems Inc.

Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1353GE	Bore - in. (cm) x Stroke - in. (cm):	5.20 (13.1) x 6.20 (15.8)
Туре:	4-Cycle	Compression Ratio:	18.1:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	611 (449)
Exhaust System		Standby	Prime
Gas Temp. (Stack): °F (°C)		932 (500)	905 (485)
Gas Volume at Stack Temp: CFM (m³/min)		2,790 (79.0)	2,613 (74.0)
Maximum Allowable Exhaust Restriction: in. H2O (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 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)		10,123 (177)	9383 (164)
Heat Rejection to CAC: BTUM (kW)		5,346 (94.0)	5,289 (93.0)
Heat Radiated to Ambient: BTUM (kW)		3,415 (59.8)	3,202 (56.0)
Air Requirements			
Aspirating: CFM (m ³ /min)		1,102 (31.2)	1,038 (29.4)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)		24,175 (684)	24,175 (684)
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)		27.9 (105.6)	25.6 (96.9)
At 75% of Power Rating: gal/hr (lit/hr)		21.9 (82.9)	20.1 (76.1)
At 50% of Power Rating: gal/hr (lit/hr)		15.0 (56.8)	14.0 (53.0)
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)		11.6 (44.0)	11.6 (44.0)

Deration Factors

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

Consult factory for site conditions above these parameters.

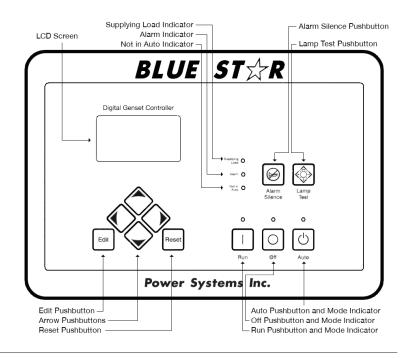
400 kWe / 360 kWe

BLUE ST R Power Systems Inc.

DGC-2020 Control Panel

Standard Features

- 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

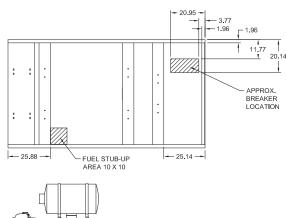


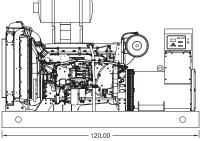
Weights / Dimensions / Sound Data

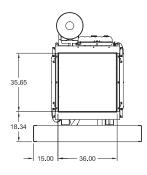
	L x W x H	Weight Ibs
OPU	120 x 66 x 83 in	7,875
Level 1	156 x 66 x 94 in	9,125
Level 2	156 x 66 x 94 in	9,200
Level 3	204 x 66 x 94 in	9,500
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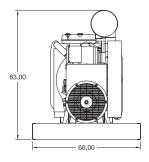
Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load
OPU	88 dBA	91 dBA
Level 1	84 dBA	86 dBA
Level 2	79 dBA	81 dBA
Level 3	70 dBA	73 dBA







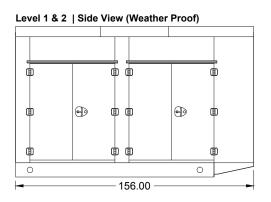


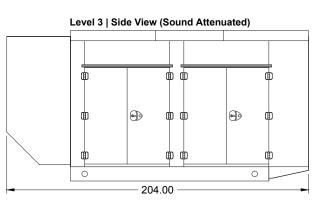
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

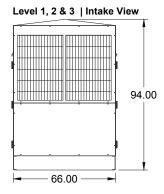
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Enclosures



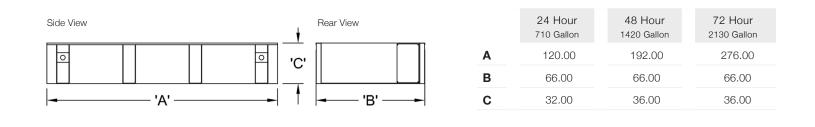




All enclosures are 150 MPH Wind Rated.

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.



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