

Diesel Product Line

208-600 Volt

VD400-01

60 Hz / 1800 RPM

Standby / Prime

400 kWe / 360 kWe

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	573RSL4035	433CSL6220	433CSL6220	433CSL6220	433PSL6248	
Connection	nection 12 LEAD ZIG-ZAG		12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE	
Standby						
kWe	400	400	400	400	400	
AMPS	1667	1390	1204	602	482	
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	360	360	360	360	360	
AMPS	1500	1251	1084	542	434	
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 (50°C)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor Electronic Isochronous
- 24V Battery System & Cables
- SAE Flywheel Housing
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connectors
- EPA Certified Tier 3

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1.0% 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
- Base Structural 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 (Pad Type)
- Radiator Duct Flange (OPU Only)
- Single Source Supplier
- > 2YR / 2000HR Standby Warranty
- > 1YR / 1500HR Prime Warranty
- Standard Colors White / Tan / Gray

Diesel Product Line

400 kWe / 360 kWe

BLUE ST R Power Systems Inc.

Application Data

Manufacturer:	Volvo	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1353GE	Bore - in. (cm) x Stroke - in. (cm):	5.2 (13.1) x 6.2 (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)	923 (495)	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)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa)	0.5 (0.12)	0.5 (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 (m³/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 Co	ooled 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)	9.5 (36.0)	9.5 (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 4920 ft (1500 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

Diesel Product Line

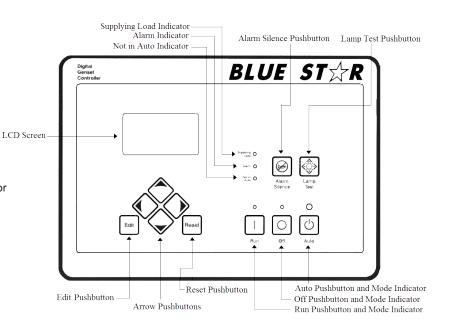
400 kWe / 360 kWe

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 RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- Up to 11 Contact Outputs
- UL Recognized, CSA Certified, CE Approved
- Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible

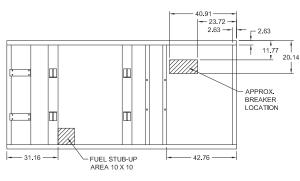


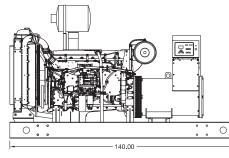
Weights / Dimensions / Sound Data

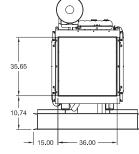
	L x W x H	Weight lbs		
OPU	140 x 66 x 82 in	8,550		
Level 1	140 x 66 x 105 in	9375		
Level 2	140 x 66 x 123 in	10,025		
Level 3	195 x 66 x 112 in	10,675		
I I a failed the and a structure	-			

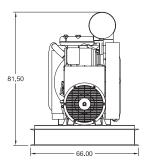
Height measured from bottom of base to exhaust stack.

	No Load	Full Load			
OPU	85 dBA	88 dBA			
Level 1	83 dBA	87 dBA			
Level 2	81 dBA	85 dBA			
Level 3	71 dBA	73 dBA			









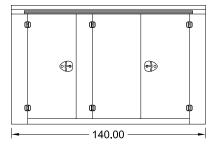
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

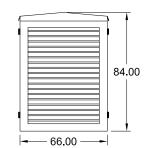
400 kWe / 360 kWe



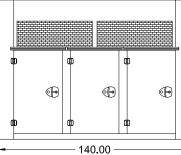
Optional Enclosures and Fuel Tanks

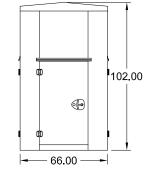
Level 1 Enclosure (WPE)



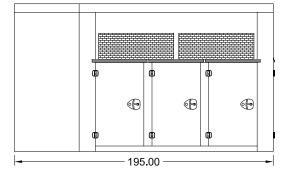


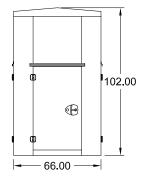
Level 2 Enclosure (WPF)

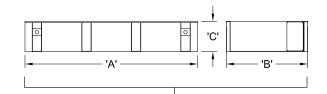




Level 3 Enclosure (SAE)







*Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available). **Level 2 & 3 enclosures are 150 MPH Wind Rated as standard. ***Enclosure height does not include unit base or exhaust stack.

ouble Wall UL 142 Listed Fuel Tanks									
	24 Hour (875 Gallon)		48 Hour (1	48 Hour (1750 Gallon)		72 Hour (2625 Gallon)			
	Α	в	С	Α	в	С	Α	в	С
OPU	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 1	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 2	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 3	195.00	66.00	22.00	191.00	66.00	32.00	330.00	66.00	36.00

*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.

***Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:



Blue Star Power Systems, Inc.

52146 Ember Rd, Lake Crystal, MN 56055 Phone + 1 507 726 2508 www.bluestarps.com