

# BLUE STAR

## Power Systems Inc.

### Diesel Product Line

208-600 Volt

CD200-01

60 Hz / 1800 RPM

200 kWe / 175 kWe

Standby / Prime

### Ratings

	240V	208V	240V	480V	600V
<b>Phase</b>	1	3	3	3	3
<b>PF</b>	1.0	0.8	0.8	0.8	0.8
<b>Hz</b>	60	60	60	60	60
<b>Generator Model</b>	432CSL6210	431CSL6206	431CSL6206	431CSL6206	431PSL6243
<b>Connection</b>	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
<b>Standby</b>					
<b>kWe</b>	200	200	200	200	200
<b>AMPS</b>	833	695	602	301	241
<b>Temp Rise</b>	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
<b>Prime [Only Available for Mobile Applications]</b>					
<b>kWe</b>	175	175	175	175	175
<b>AMPS</b>	729	608	527	263	211
<b>Temp Rise</b>	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

### Standard Equipment

- |   |  |   |
|---|--|---|
| <p><b>Engine</b></p> <ul style="list-style-type: none"> <li>▶ Radiator Cooled Unit Mounted (50°C)</li> <li>▶ Blower Fan &amp; Fan Drive</li> <li>▶ Starter &amp; Alternator</li> <li>▶ Oil Pump &amp; Filter</li> <li>▶ Oil Drain Extension w/ Valve</li> <li>▶ Governor - Electronic Isochronous</li> <li>▶ 12V Battery System &amp; Cables</li> <li>▶ SAE Flywheel Housing</li> <li>▶ Air Cleaner (Dry Single Stage)</li> <li>▶ Flexible Fuel Connectors</li> <li>▶ EPA Certified - Tier 3</li> </ul> | <p><b>Generator</b></p> <ul style="list-style-type: none"> <li>▶ Brushless Single Bearing</li> <li>▶ Automatic Voltage Regulator</li> <li>▶ ± 1.0% Voltage Regulation</li> <li>▶ 4 Pole, Rotating Field</li> <li>▶ 130°C Standby Temperature Rise</li> <li>▶ 105°C Prime Temperature Rise</li> <li>▶ 100% of Rated Load - One Step</li> <li>▶ 5% Maximum Harmonic Content</li> <li>▶ NEMA MG 1, IEEE and ANSI standards compliance for temperature rise</li> </ul> | <p><b>Additional</b></p> <ul style="list-style-type: none"> <li>▶ Microprocessor Based Digital Control</li> <li>▶ Base - Formed Steel</li> <li>▶ Main Line Circuit Breaker Mounted &amp; Wired</li> <li>▶ Critical Grade Silencer Mounted</li> <li>▶ Battery Charger 12V 6 Amp</li> <li>▶ Jacket Water Heater -20°F 1800W 120V w/Isolation Valves</li> <li>▶ Vibration Isolation Mounts</li> <li>▶ Radiator Duct Flange (OPU Only)</li> <li>▶ Single Source Supplier</li> <li>▶ 2YR / 2000HR Standby Warranty</li> <li>▶ 1YR / 1500HR Prime Warranty</li> <li>▶ Standard Colors - White / Tan / Gray</li> </ul> |
|---|--|---|

## Application Data

Engine			
Manufacturer:	Cummins	Displacement - Cu. In. (lit):	408 (6.69)
Model:	QSB7-G5 NR3	Bore - in. (cm) x Stroke - in. (cm):	4.21 (10.7) x 4.88 (12.4)
Type:	4-Cycle	Compression Ratio:	17.2:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	324 (242)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	988 (531)	907 (486)
Gas Volume at Stack Temp: CFM (m³/min)	1,549 (43.8)	1,342 (38.0)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	40.8 (10.2)	40.8 (10.2)

Cooling System	Standby	Prime
Ambient Capacity of Radiator: °F (°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H2O (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Flow Rate: Gpm (lit/min)	38 (144)	38 (144)
Heat Rejection to Coolant: BTUM (kW)	4,858 (85.0)	4,231 (74.0)
Heat Rejection to CAC: BTUM (kW)	2,786 (48.8)	2,499 (43.7)
Heat Radiated to Ambient: BTUM (kW)	2,135 (37.4)	2,117 (37.0)

Air Requirements	Standby	Prime
Aspirating: CFM (m³/min)	569 (16.1)	541 (15.3)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	17,492 (495)	17,492 (495)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications	

Fuel Consumption	Standby	Prime
At 100% of Power Rating: gal/hr (lit/hr)	15.5 (58.7)	13.3 (50.3)
At 75% of Power Rating: gal/hr (lit/hr)	11.6 (43.9)	10.6 (40.1)
At 50% of Power Rating: gal/hr (lit/hr)	9.0 (34.1)	7.8 (29.5)

Fluids Capacity	Standby	Prime
Total Oil System: gal (lit)	5.0 (18.9)	5.0 (18.9)
Engine Jacket Water Capacity: gal (lit)	2.7 (10.2)	2.7 (10.2)
System Coolant Capacity: gal (lit)	6.3 (23.1)	6.3 (23.1)

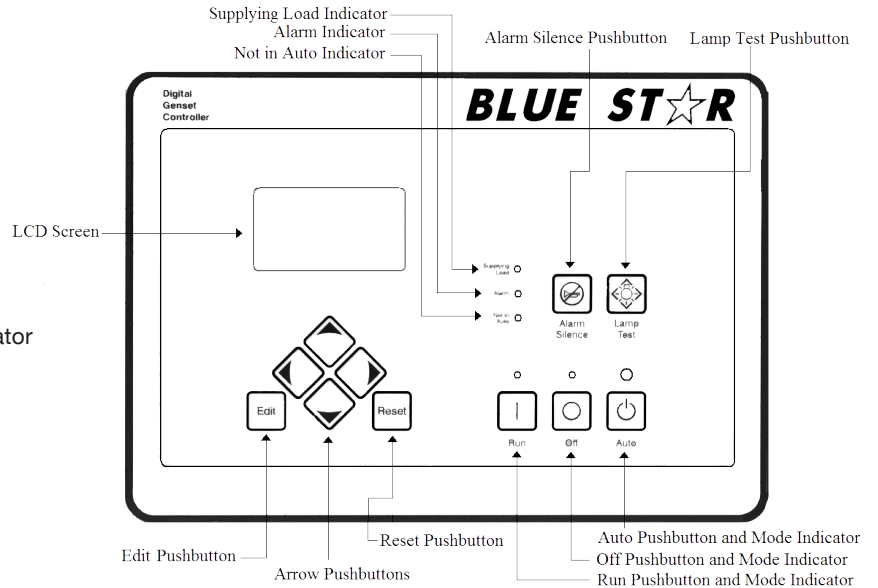
### Deration Factors

Rated power available up to 2400 ft (732 m) at ambient temperatures to 122°F standby and prime. Consult factory for site conditions above these parameters.

## DGC-2020 Control Panel

### Standard Features

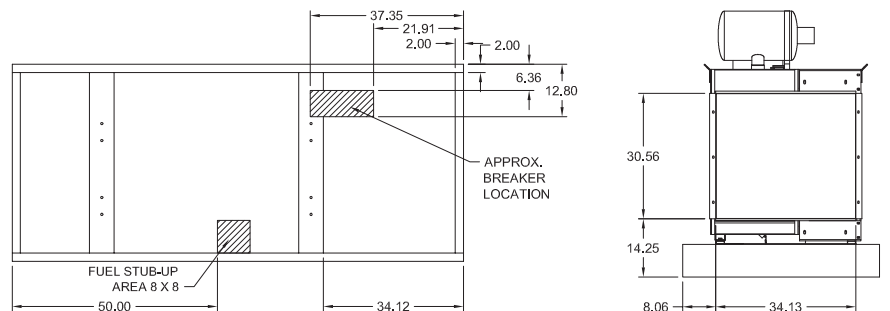
- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs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



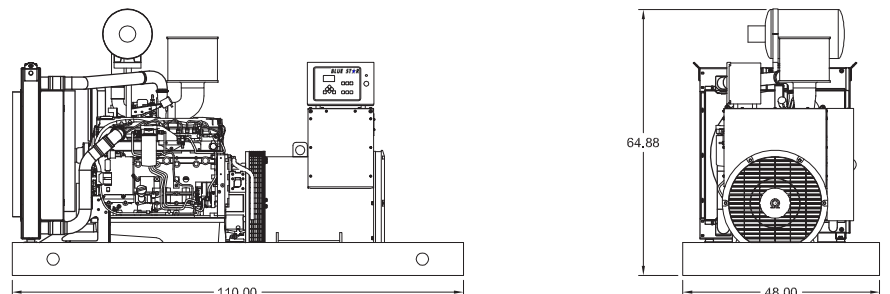
## Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
<b>OPU</b>	110 x 48 x 65 in	3275
<b>LEVEL 1</b>	110 x 48 x 82 in	3950
<b>LEVEL 2</b>	110 x 48 x 100 in	4250
<b>LEVEL 3</b>	150 x 48 x 92 in	4475

Height measured from bottom of base to exhaust stack.



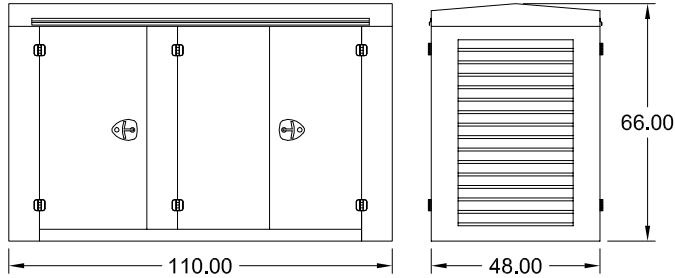
	No Load	Full Load
<b>OPU</b>	90 dBA	92 dBA
<b>Level 1</b>	89 dBA	91 dBA
<b>Level 2</b>	86 dBA	88 dBA
<b>Level 3</b>	74 dBA	76 dBA



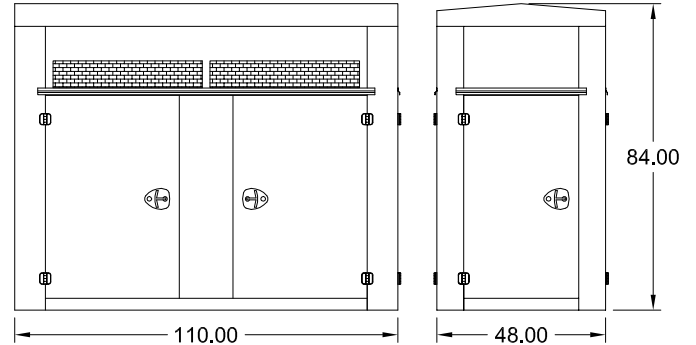
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

Optional Enclosures and Fuel Tanks

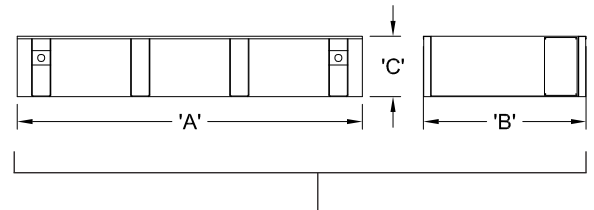
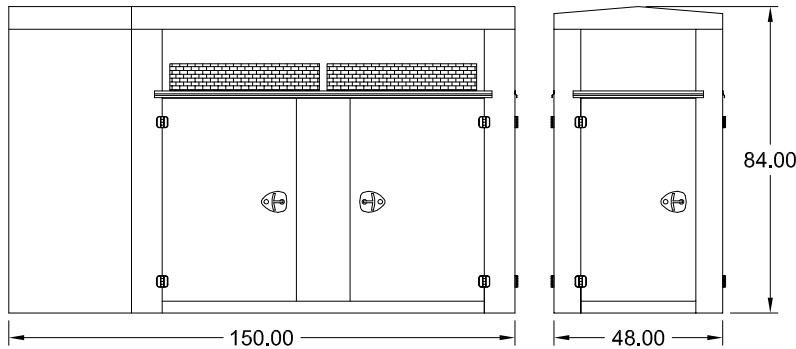
Level 1 Enclosure (WPE)



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.

**Double Wall UL 142 Listed Fuel Tanks**

	24 Hour (375 Gallon)			48 Hour (750 Gallon)			72 Hour (1125 Gallon)		
	A	B	C	A	B	C	A	B	C
<b>OPU</b>	110.00	48.00	26.00	150.00	48.00	36.00	215.00	48.00	36.00
<b>Level 1</b>	110.00	48.00	26.00	150.00	48.00	36.00	215.00	48.00	36.00
<b>Level 2</b>	110.00	48.00	26.00	150.00	48.00	36.00	215.00	48.00	36.00
<b>Level 3</b>	150.00	48.00	18.00	150.00	48.00	36.00	215.00	48.00	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