

# Diesel Product Line

### 208-600 Volt

CD500-01

500 kWe / 460 kWe

### 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	572RSL4029	572RSL4029	572RSL4027	572RSS4270	
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE	
Standby					
kWe	500	500	500	500	
AMPS	1737	1505	753	602	
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	
Prime					
kWe	460	460	460	460	
AMPS	1598	1385	692	554	
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 (40°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 2

#### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ▶ ± .25% 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

- UL 2200 ListedcUL Listed
- Microprocessor Based Digital Control
- Base Structural Steel
- Main Line Circuit Breaker Mounted & Wired

US

- 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

60 Hz / 1800 RPM

### Standby / Prime

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500 kWe / 460 kWe

# BLUE ST R Power Systems Inc.

### Application Data

Engine			
Manufacturer:	Cummins	Displacement - Cu. In. (lit):	912 (15.0)
Model:	QSX15-G9 NR2	Bore - in. (cm) x Stroke - in. (cm):	5.39 (13.7) x 6.65 (16.9)
Туре:	4-Cycle	Compression Ratio:	17.0:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	755 (563)
Exhaust System		Standby	Prime
Gas Temp. (Stack): °F (°C)		909 (488)	875 (468)
Gas Volume at Stack Temp: CFM (	m³/min)	3,845 (109)	3,200 (90.6)
Maximum Allowable Exhaust Rest	riction: in. H2O (kPa)	40.8 (10.2)	40.8 (10.2)
Cooling System			
Ambient Capacity of Radiator: °F (	°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressur	e on Rad. Exhaust: in. H20 (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Flow Rate: Gpm (lit/m	iin)	105 (397)	105 (397)
Heat Rejection to Coolant: BTUM (	(kW)	9,230 (162)	7,830 (137)
Heat Rejection to CAC: BTUM (kW	)	9,070 (159)	7,300 (128)
Heat Radiated to Ambient: BTUM (	(kW)	4,553 (79.7)	4,189 (73.3)
Air Requirements			
Aspirating: CFM (m³/min)		1,510 (42.7)	1,380 (39.1)
Air Flow Required for Rad. Cooled	Unit: CFM (m³/min)	25,000 (708)	25,000 (708)
Air Flow Required for Heat Exchange	ger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Coole	ed Applications
Fuel Consumption			
At 100% of Power Rating: gal/hr (li	t/hr)	35.9 (136)	31.1 (118)
At 75% of Power Rating: gal/hr (lit/	/hr)	26.2 (99.2)	23.9 (90.5)
At 50% of Power Rating: gal/hr (lit/	′hr)	18.2 (68.9)	17.2 (65.3)
Fluids Capacity			
Total Oil System: gal (lit)		24.0 (90.8)	24.0 (90.8)
Engine Jacket Water Capacity: gal	(lit)	6.3 (24.0)	6.3 (24.0)
System Coolant Capacity: gal (lit)		15.3 (57.9)	15.3 (57.9)

Deration Factors

Rated power available up to 500 ft (152 m) at ambient temperatures to 104°F standby and prime. Consult factory for site conditions above these parameters.

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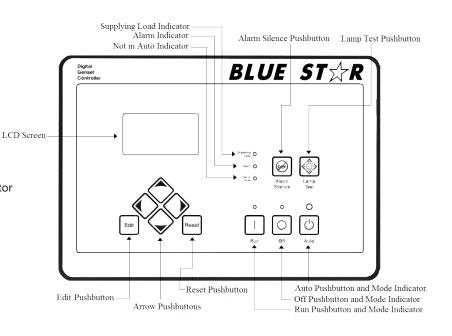
### 500 kWe / 460 kWe

# 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

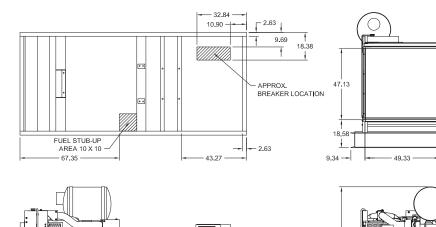


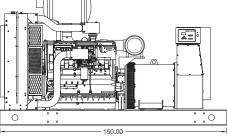
### Weights / Dimensions / Sound Data

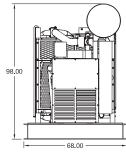
	L x W x H	Weight lbs
OPU	150 x 68 x 98 in	8600
LEVEL 1	150 x 68 x 115 in	9500
LEVEL 2	150 x 68 x 126 in	10,100
LEVEL 3	205 x 68 x 114 in	10,700
Height measured	from bottom of base to e	vhauet etack

Height measured from bottom of base to exhaust stack.

	No Load	Full Load			
OPU	88 dBA	92 dBA			
Level 1	84 dBA	88 dBA			
Level 2	83 dBA	87 dBA			
Level 3	72 dBA	75 dBA			







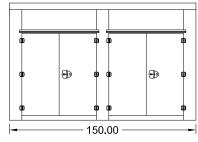
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

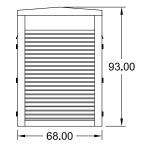
### 500 kWe / 460 kWe



### Optional Enclosures and Fuel Tanks

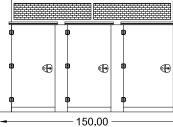
### Level 1 Enclosure (WPE)



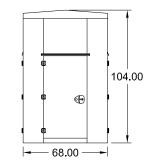




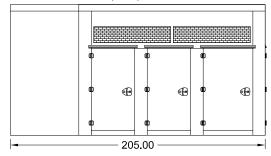
Level 2 Enclosure (WPF)

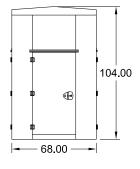


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#### Level 3 Enclosure (SAE)





\*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 Liste	d 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	150.00	68.00	30.00	230.00	68.00	36.00	336.00	68.00	36.00
Level 1	150.00	68.00	30.00	230.00	68.00	36.00	336.00	68.00	36.00
Level 2	150.00	68.00	30.00	230.00	68.00	36.00	336.00	68.00	36.00
Level 3	205.00	68.00	22.00	230.00	68.00	36.00	336.00	68.00	36.00

\*All specification sheet dimensions are represented in inches.

Rev1.0

\*\*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.

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