BLUE STAR
Power Systems Inc.

Gaseous Product Line

208-600 Volt

NG150-01

60 Hz / 1800 RPM

150 kWe

Standby

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	431CSL6206	431CSL6202	431CSL6202	431CSL6202	431PSL6240
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	150 (95)	150 (95)	150 (95)	150 (95)	150 (95)
AMPS Nat (LP)	625 (396)	521 (330)	452 (286)	226 (143)	181 (114)
Temp Rise	130˚C / 27˚C	130˚C / 27˚C	130˚C / 27˚C	130˚C / 27˚C	130˚C / 27˚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 Connector
- EPA Certified

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1% Voltage Regulation
- 4 Pole, Rotating Field
- 130˚C Standby 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 Certified
- cUL Certified
- 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 2500W 240V w/Isolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- Single Source Supplier
- 2YR / 2000HR Standby Warranty
- Standard Colors - White / Tan / Gray

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150 kWe

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Application Data

Engine			
Manufacturer:	NGE	Displacement - Cu. In. (lit):	492 (8.10)
Model:	D081TIC	Bore - in. (cm) x Stroke - in. (cm):	4.37 (11.1) x 5.47 (13.9)
Type:	4-Cycle	Compression Ratio:	10.5 : 1
Aspiration:	Turbo Charged	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	239 (178)

Exhaust System		
Gas Temp. (Stack): °F (°C)		1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)		1,129 (31.9)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)		40.8 (10.2)
Cooling System		
Ambient Capacity of Radiator: °F (°C)		122 (50)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa)		0.5 (0.12)
Water Pump Flow Rate: Gpm (lit/min)		63.0 (238)
Heat Rejection to Coolant: BTUM (kW)		9,357 (163.7)
Heat Rejection to CAC: BTUM (kW)		760 (13.3)
Heat Radiated to Ambient: BTUM (kW)		2,348 (41.1)
Air Requirements		
Aspirating: CFM (m³/min)		355 (10.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)		12,500 (354)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory For Remote Cooled Applications
Fuel Consumption	**Natural Gas**	**LP**
At 100% of Power Rating: ft3/hr (m3/hr)	1,539 (43.6)	517 (14.7)
At 75% of Power Rating: ft3/hr (m3/hr)	1,191 (33.7)	390 (11.1)
At 50% of Power Rating: ft3/hr (m3/hr)	845 (23.9)	283 (8.02)
Fuel Inlet Size: NPT (Qty)	1.5” (1)	1.5” (1)
Fluids Capacity		
Total Oil System: gal (lit)		6.34 (24.0)
Engine Jacket Water Capacity: gal (lit)		6.0 (22.7)
System Coolant Capacity: gal (lit)		21.3 (80.0)

All calculations based on natural gas fuel.
Deration Factors: Temperature: Derate 1.5% Per 10°F Over 77°F Air Inlet Temperature | Altitude: Derate 2.5% Per 1000ft Over 1200ft

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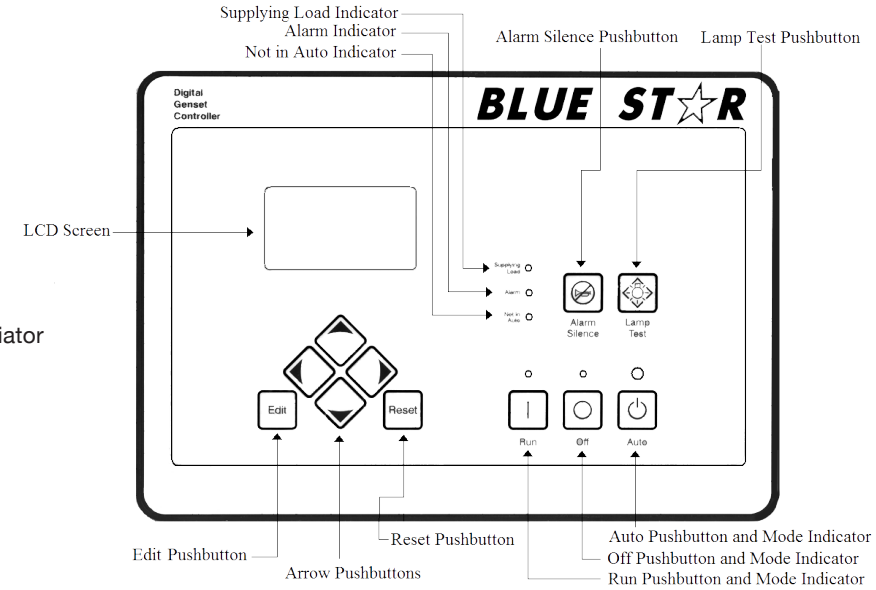
BLUE STAR Power Systems Inc.

DGC-2020 Control Panel

Standard Features

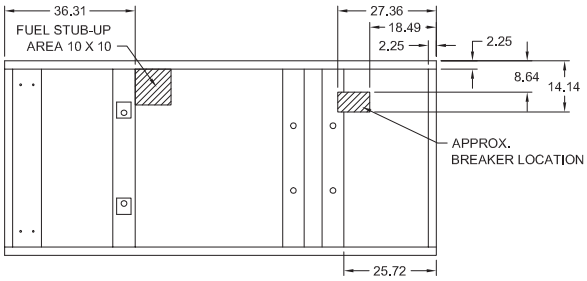
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- Up to 15 Contact Outputs (7 standard)
-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

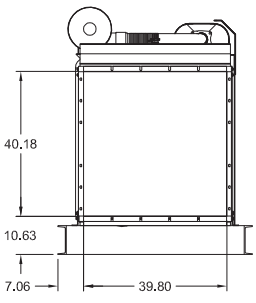


Weights / Dimensions / Sound Data

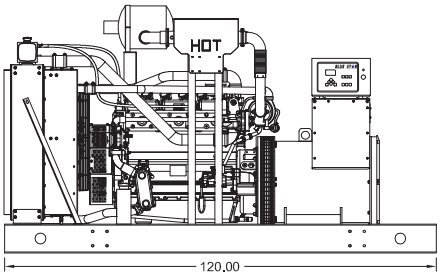
	L x W x H	Weight lbs
OPU	120 x 54 x 57 in	5221
Level 1	120 x 54 x 86 in	5986
Level 2	120 x 54 x 107 in	6300
Level 3	160 x 54 x 89 in	6529

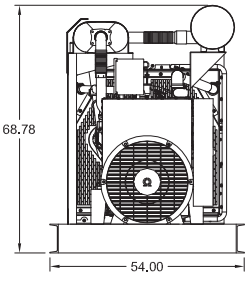
Height measured from bottom of base to exhaust stack.





	No Load	Full Load
OPU	80 dBA	82 dBA
Level 1	77 dBA	79 dBA
Level 2	77 dBA	79 dBA
Level 3	68 dBA	70 dBA

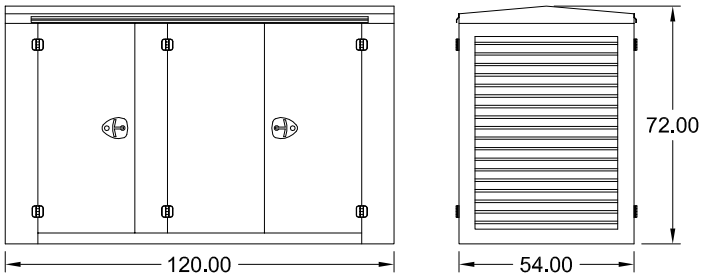




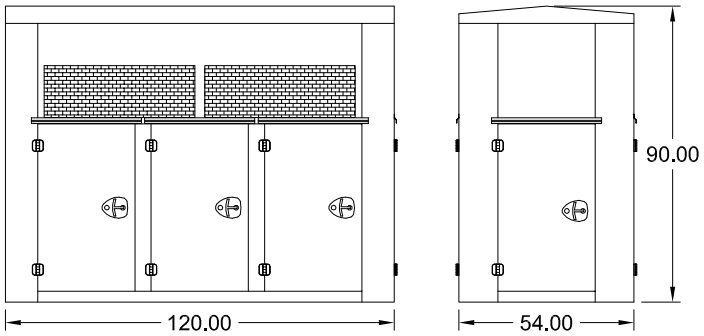
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice.
Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

Optional Enclosures

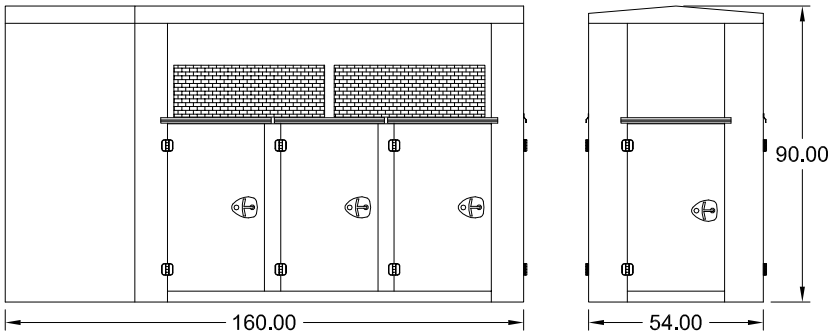
Level 1 Enclosure (WPE)



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.

*All specification sheet dimensions are represented in inches.

**All enclosures are based on the standard standby unit configuration. Any deviation can change dimensions.

***Level 1 enclosure not UL listed.

Distributed By:

A USA COMPANY

Blue Star Power Systems, Inc.

52146 Ember Rd, Lake Crystal, MN 56055

Phone + 1 507 726 2508

www.bluestarps.com