

# BLUE STAR Power Systems

Gaseous Product Line

208-600 Volt

GM60-02P

60 Hz / 1800 RPM

55kWe

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>	UCI224G	UCI224F	UCI224F	UCI224E	UCI224E
<b>Connection</b>	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
<b>kWe Nat (LP)</b>	55 (55)	55 (55)	55 (55)	55 (55)	55 (55)
<b>AMPS Nat (LP)</b>	229 (229)	191 (191)	166 (166)	83 (83)	66 (66)
<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

### Engine

- Radiator Cooled Unit Mounted (50°C)
- Radiator Duct Flange (OPU Only)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 12V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Catalyst/Silencer Mounted
- Flexible Fuel Connector
- EPA Certified

### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1% Voltage Regulation
- 4 Pole, Rotating Field
- 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

- Single Source Supplier
- UL 2200 & cUL Listed
- CSA Certified
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 12V 6 Amp
- Jacket Water Heater -20°F 1500W 120V w/Isolation Valves
- Vibration Isolation Mounts
- 1 Year / 1500 Hour Prime Warranty
- Standard Colors - White / Gray

## Application Data

### Engine

Manufacturer:	Power Solutions International	Displacement - Cu. In. (lit):	350 (5.70)
Model:	5.7L NA	Bore - in. (cm) x Stroke - in. (cm):	4.00 (10.2) x 3.48 (8.84)
Type:	4-Cycle	Compression Ratio:	9.4:1
Aspiration:	Natural	Rated RPM:	1800
Cylinder Arrangement:	8 Cylinder Vee	Max HP Stby (kWm):	113 (84.3)

### Exhaust System

**Prime**

Gas Temp. (Stack): °F (°C)	1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)	553 (15.1)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa)	40.8 (10.2)

### Cooling System

Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	36.6 (139)
Heat Rejection to Coolant: BTUM (kW)	3,120 (54.6)
Heat Rejection to CAC: BTUM (kW)	N/A
Heat Radiated to Ambient: BTUM (kW)	734 (12.8)

### Air Requirements

Aspirating: CFM (m³/min)	173 (4.90)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	7,400 (209)
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: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	709 (20.1)	311 (8.80)
At 75% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	608 (17.2)	236 (6.68)
At 50% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	502 (14.2)	196 (5.55)
Fuel Inlet Size: NPT		1.00"
Fuel Pressure Required: in. H <sub>2</sub> O (kPa)		11.0 (2.75)

### Fluids Capacity

Total Oil System: gal (lit)	1.25 (4.73)
Engine Jacket Water Capacity: gal (lit)	2.03 (7.68)
System Coolant Capacity: gal (lit)	6.00 (22.7)

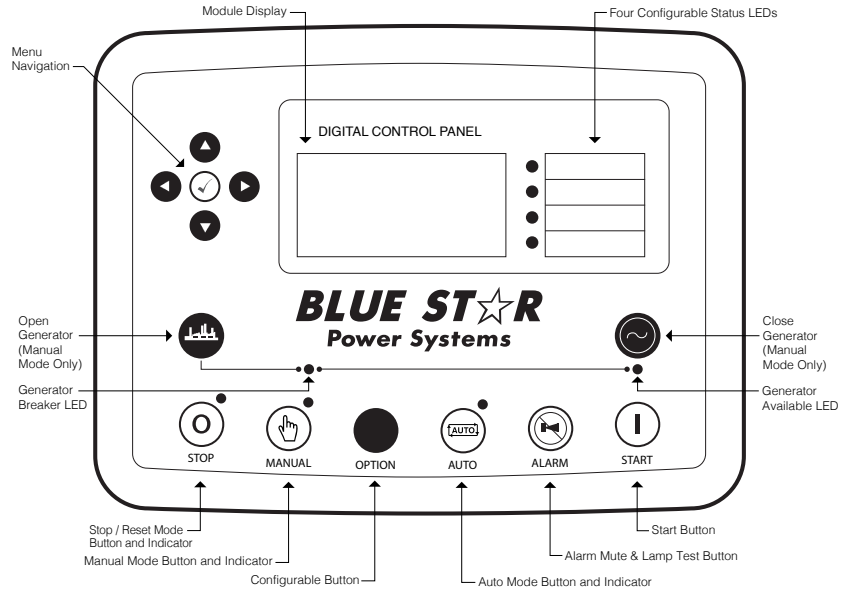
All calculations based on natural gas fuel.

Deration Factors: Temperature: Derate 1% Per 10°F Over 77°F Air Inlet Temperature | Altitude: Derate 3% Per 1,000 ft Over 1,200 ft

## DCP7310 Control Panel

### Standard Features

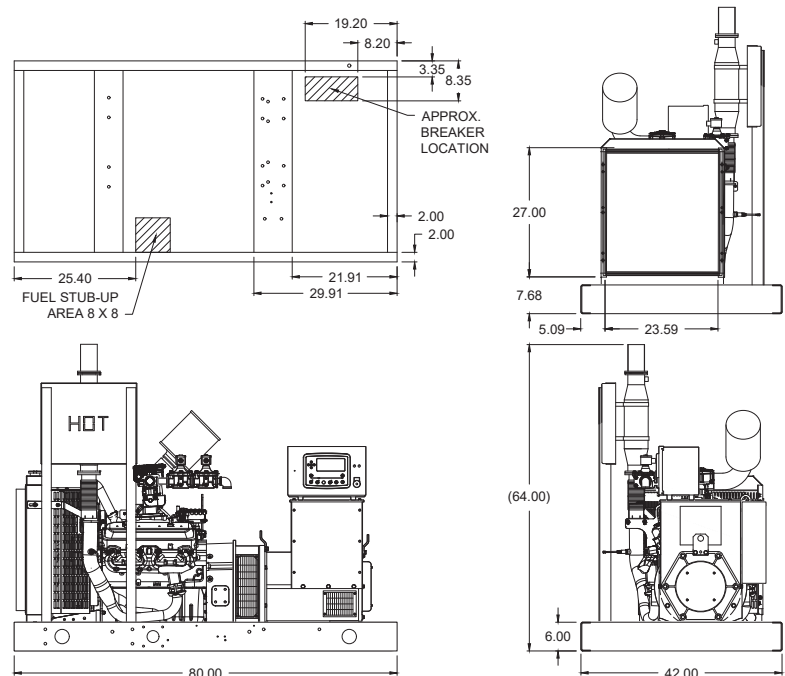
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- NFPA 110 Level 1 Compatible



## Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
<b>OPU</b>	80 x 42 x 64 in	2,025
<b>Level 1</b>	96 x 42 x 66 in	2,500
<b>Level 2</b>	96 x 42 x 66 in	2,550
<b>Level 3</b>	126 x 42 x 66 in	2,675

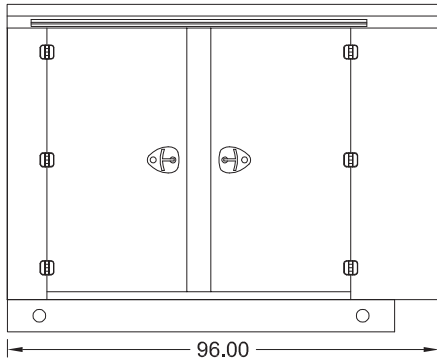
Please allow 6-12 inches for height of exhaust stack.



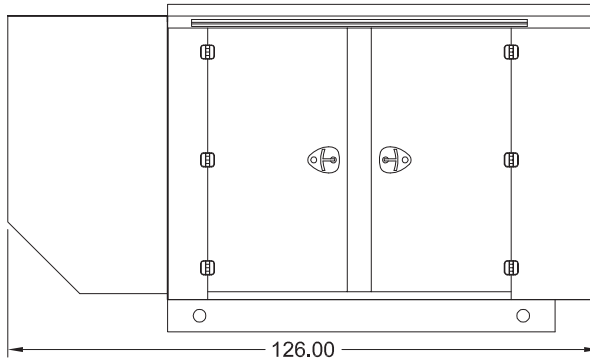
	No Load	Full Load
<b>OPU</b>	76 dBA	79 dBA
<b>Level 1</b>	71 dBA	73 dBA
<b>Level 2</b>	66 dBA	68 dBA
<b>Level 3</b>	63 dBA	64 dBA

## Enclosures

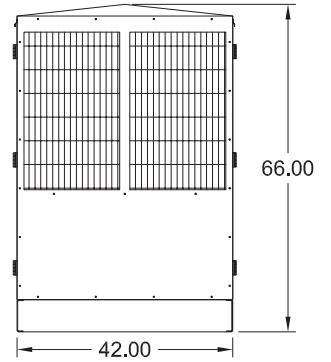
Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)



Level 1, 2 & 3 | Intake View



- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

### Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures are based on the standard unit configuration. Any requested deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.

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