

# BLUE STAR

## Power Systems Inc.

### Gaseous Product Line

208-4160 Volt

NG1050-01

60 Hz / 1800 RPM

1050 kWe

Standby

### Ratings

	208V	240V	480V	600V	4160V
<b>Phase</b>	3	3	3	3	3
<b>PF</b>	0.8	0.8	0.8	0.8	0.8
<b>Hz</b>	60	60	60	60	60
<b>Generator Model</b>	S6L1D-H	S6L1D-H	S6L1D-F	S6L1D-F	MVWI734F
<b>Connection</b>	12 LEAD WYE	12 LEAD DELTA	4 LEAD WYE	4 LEAD WYE	6 LEAD WYE
<b>kWe Nat (LP)</b>	1050 (700)	1050 (700)	1050 (700)	1050 (700)	1050 (700)
<b>AMPS Nat (LP)</b>	3647 (2432)	3161 (2107)	1581 (1054)	1264 (843)	182 (122)
<b>Temp Rise</b>	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°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
- 24V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Catalyst / Silencer Mounted
- Flexible Fuel Connector
- EPA Certified

#### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 0.50% Voltage Regulation
- 4 Pole, Rotating Field
- 125°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

- Single Source Supplier
- UL 2200 & cUL Listed through 600VAC
- CSA Certified through 600VAC
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base - Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater (Qty 2) -20°F 9000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors - White / Gray

### Application Data

#### Engine

Manufacturer:	Power Solutions International	Displacement - Cu. In. (lit):	3192 (52.3)
Model:	53L	Bore - in. (cm) x Stroke - in. (cm):	5.91 (15.0) x 7.28 (18.5)
Type:	4-Cycle	Compression Ratio:	10.5 : 1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	16 Cylinder Vee	Max HP Stby (kW <sub>m</sub> ):	1589 (1,185)

#### Exhaust System

	<b>Standby</b>
Gas Temp. (Stack): °F (°C)	1,212 (656)
Gas Volume at Stack Temp: CFM (m <sup>3</sup> /min)	6,855 (194)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H <sub>2</sub> O (kPa)	18.7 (4.67)

#### 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)	600 (2,271)
Heat Rejection to Coolant: BTUM (kW)	51,593 (903)
Heat Rejection to CAC: BTUM (kW)	8,923 (156)
Heat Radiated to Ambient: BTUM (kW)	21,290 (373)

#### Air Requirements

Aspirating: CFM (m <sup>3</sup> /min)	2,205 (62.4)
Air Flow Required for Rad. Cooled Unit: CFM (m <sup>3</sup> /min)	67,300 (1,905)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m <sup>3</sup> /min)	Consult Factory For Remote Cooled Applications

#### Standby

#### Fuel Consumption

	<b>Natural Gas</b>	<b>LP</b>
At 100% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	11,450 (324)	3,643 (103)
At 75% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	9,018 (255)	2,812 (79.6)
At 50% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	6,725 (190)	2,103 (59.5)
Fuel Inlet Size: NPT		3.00"
Fuel Pressure Required: in. H <sub>2</sub> O (kPa)		11.0 (2.75)

#### Fluids Capacity

Total Oil System: gal (lit)	45.2 (171)
Engine Jacket Water Capacity: gal (lit)	26.4 (99.9)
System Coolant Capacity: gal (lit)	65.4 (248)

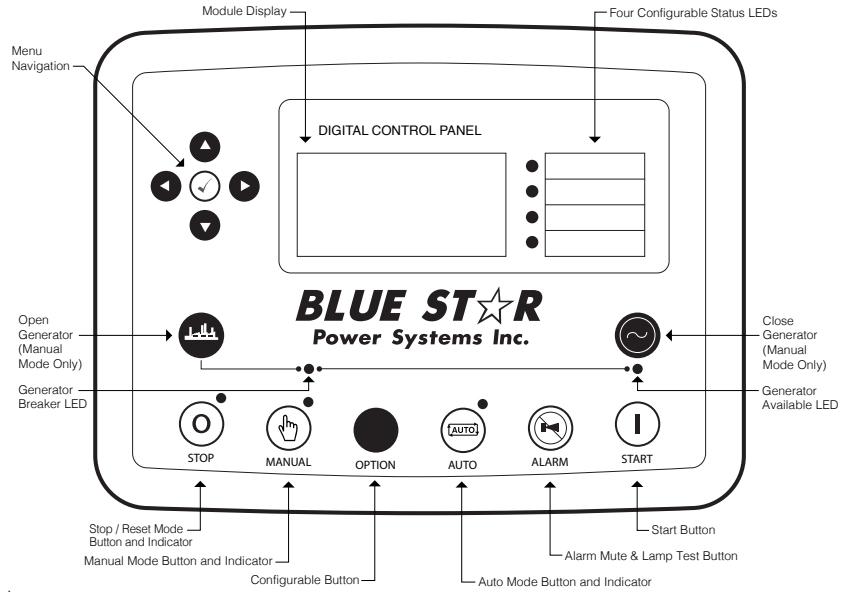
All calculations based on natural gas fuel.

Deration Factors: Temperature: Derate 1.5% Per 10°F Over 77°F Air Inlet Temperature | Altitude: Derate 2.5% Per 1,000 ft Over 1,200 ft

## DCP7310 Control Panel

### Standard Features

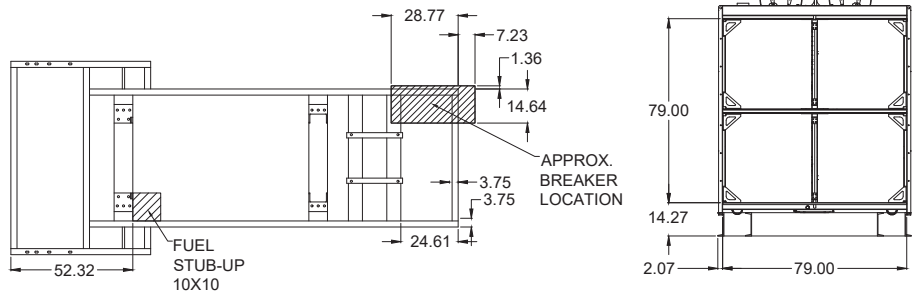
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator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



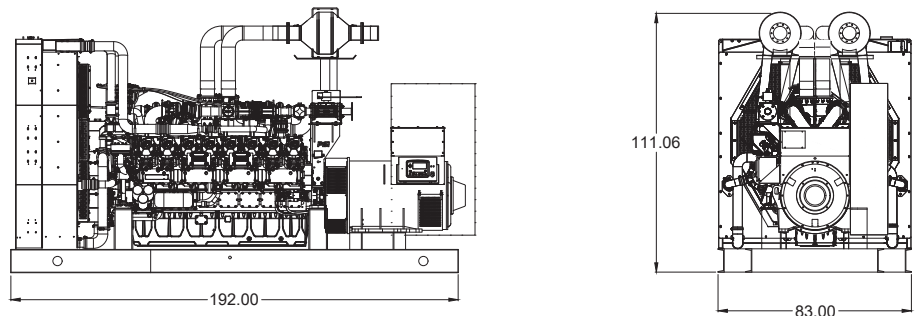
## Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
<b>OPU</b>	192 x 83 x 112 in	25,525
<b>Level 1</b>	252 x 106 x 129 in	28,325
<b>Level 2</b>	252x 106 x 129 in	28,550
<b>Level 3</b>	342 x 106 x 129 in	31,225

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

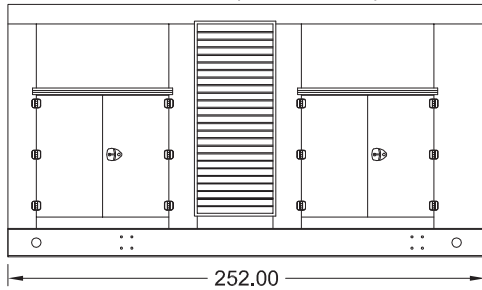


	No Load	Full Load
<b>OPU</b>	89 dBA	92 dBA
<b>Level 1</b>	87 dBA	90 dBA
<b>Level 2</b>	82 dBA	85 dBA
<b>Level 3</b>	77 dBA	80 dBA

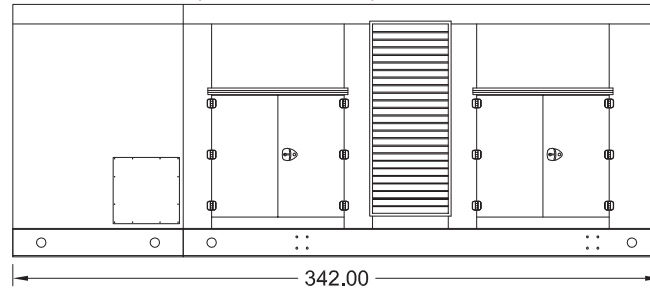


## Enclosures

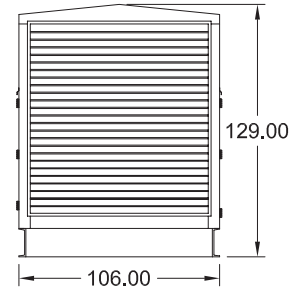
Level 1 & 2 | Side View (Weather Proof)



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.

American Owned



American Made

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