BLUE STAR
Power Systems

Gaseous Product Line

208-4160 Volt

NG1050-01

60 Hz / 1800 RPM

1050 kWe

Standby

Ratings

	480V	600V	4160V
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	60	60	60
Generator Model	S6L1D-F	S6L1D-F	MVWI734F
Connection	4 LEAD WYE	4 LEAD WYE	6 LEAD WYE
kWe Nat (LP)	1050 (700)	1050 (700)	1050 (700)
AMPS Nat (LP)	1581 (1054)	1264 (843)	182 (122)
Temp Rise	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

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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 (kWm):	1589 (1,185)

Exhaust System	Standby
Gas Temp. (Stack): °F (°C)	1,212 (656)
Gas Volume at Stack Temp: CFM (m³/min)	6,855 (194)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H_2O (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_2O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	601 (2,275)
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 (m³/min)	2,205 (62.4)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	67,300 (1,905)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications

	Standby	
Fuel Consumption	**Natural Gas**	**LP**
At 100% of Power Rating: ft3/hr (m3/hr)	12,531 (355)	3,867 (109)
At 75% of Power Rating: ft3/hr (m3/hr)	9,869 (279)	2,970 (84.1)
At 50% of Power Rating: ft3/hr (m3/hr)	7,360 (208)	2,214 (62.7)
Fuel Inlet Size: NPT		3.00”
Fuel Pressure Required: in. H_2O (kPa)		30.0 (7.50)
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 0.8% Per 5°F Over 77°F Air Inlet Temperature | Altitude: Derate 2.5% Per 1,000 ft Over 1,200 ft

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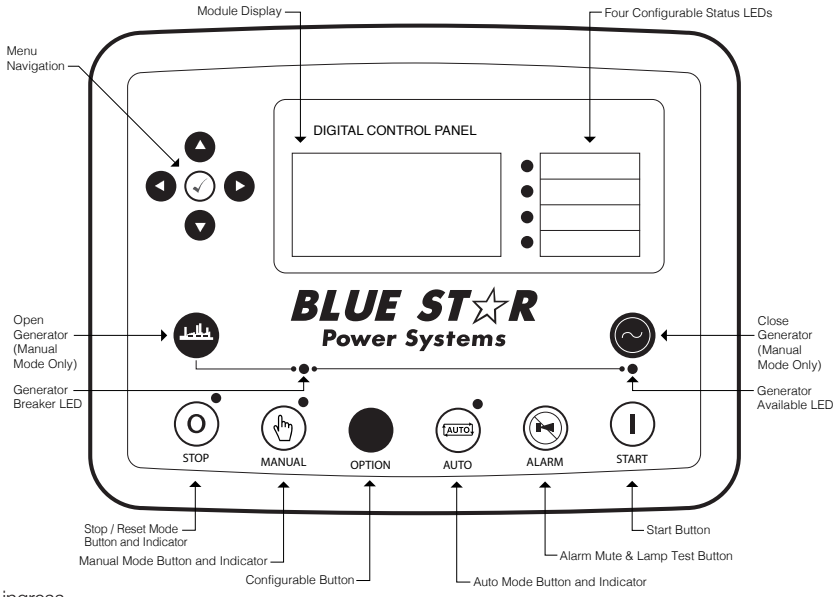
BLUE STAR Power Systems

DCP7310 Control Panel

Standard Features

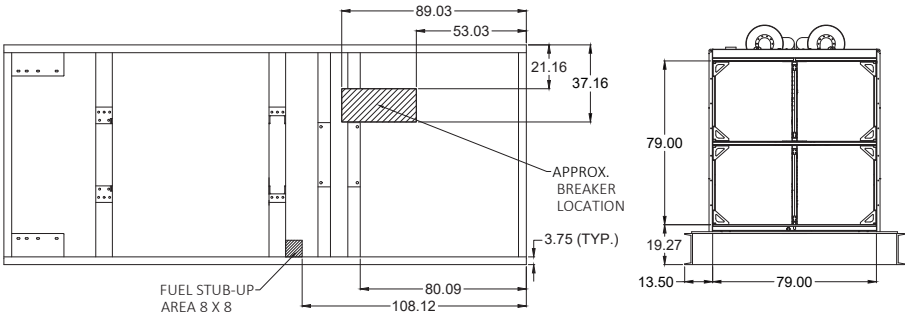
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator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



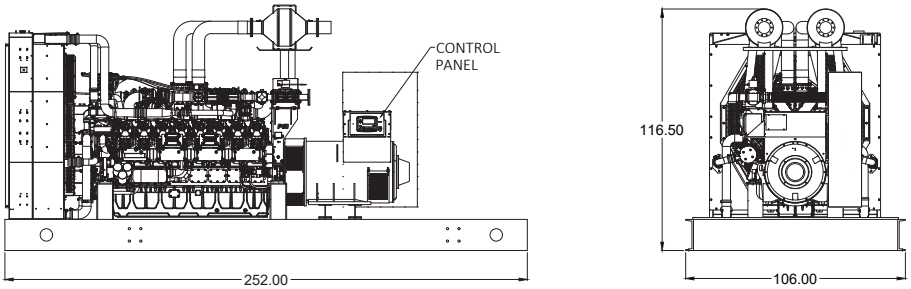
Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	252 x 106 x 117 in	25,860
Level 1	252 x 106 x 129 in	28,325
Level 2	252x 106 x 129 in	28,550
Level 3	342 x 106 x 129 in	31,225

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

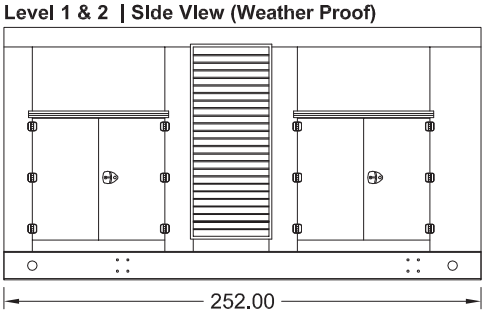


	No Load	Full Load
OPU	89 dBA	92 dBA
Level 1	87 dBA	90 dBA
Level 2	82 dBA	85 dBA
Level 3	77 dBA	80 dBA

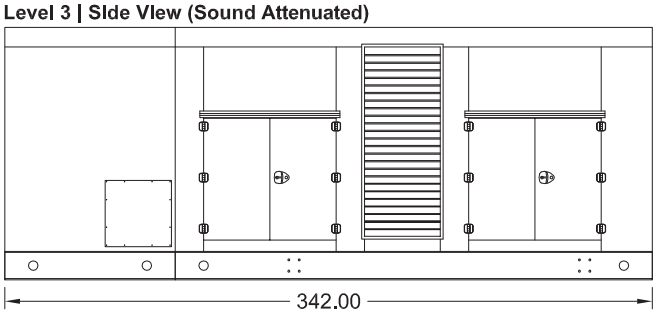


Enclosures

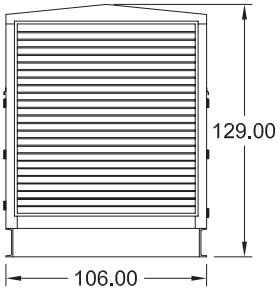
Level 1 & 2 | Side View (Weather Proof)



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.

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