BLUE ST R Power Systems Inc.

Gaseous Product Line

208-600 Volt

NG450-01 60 Hz / 1800 RPM

450 kWe Standby

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	HCl534D	HCI534D	S4L1D-G41	HCI534C
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	450 (300)	450 (300)	450 (300)	450 (300)
AMPS Nat (LP)	1563 (1042)	1355 (903)	677 (452)	542 (361)
Temp Rise	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
- CSA Certified
- 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 -20°F 5000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

NG450-01 1 of 4

Gaseous Product Line

450 kWe

Fngine



Application Data

All calculations based on natural gas fuel.

Gas Tempi, (Stack); "F ("C) 1,136 (613) Gas Volume at Stack Tempi: CFM (m³/min) 2,529 (71.6) Maximum Allowable Exhaust Restriction (Post Catalyst); in. H∞ (kPa) 7.40 (1.85) Cooling System Ambient Capacity of Radiator: "F ("C) 122 (50.0) Maximum Allowable Static Pressure on Rad. Exhaust: in. H∞ (kPa) 0.50 (0.12) Water Pump Flow Rate: GPM (lif/min) 151 (572) Heat Rejection to Coolari: BTUM (kW) 29,345 (514) Heat Rejection to CoAci: BTUM (kW) 3,686 (64.5) Heat Rejection to CoAci: BTUM (kW) 3,686 (64.5) Heat Rejection to CoAci: BTUM (kW) 3,995 (1.13) Air Requirements 29,234 (62) Air Requirements 29,235 (514) Air Flow Required for Rad. Cooled Unit: CFM (m³/min) 39,995 (1.132) Air Flow Required for Rad. Cooled Unit: CFM (m³/min) Consult Factory For Remote Cooled Applications Fuel Consumption Natural Gas LP At 100% of Power Rating: f(3/hr (m3/hr) 5,061 (43) 1,401 (39.6) At 25% of Power Rating: f(3/hr (m3/hr) 3,963 (112) 1,119 (31.7) At 50% of Power Rating: f(3/hr (m3/hr)) 2,976 (84.3)	Engine					
Type: 4 - Cycle Compression Ratio: 10.5 : 1 Aspiration: Turbo Charged, CAC Rated RPM: 1800 Cylinder Arrangement: 12 Cylinder Vee Max HP Stby (kWm): 684 (610) Exhaust System Standby Gas Temp. (Stack): "F (°C) 1,136 (613) Gas Volume at Stack Temp: CPM (m²/min) 2,529 (71.6) Maximum Allowable Exhaust Restriction (Post Catalyst): in. H-O (kPa) 7,40 (1.85) Cooling System 3 12 (50.0) Maximum Allowable Static Pressure on Rad. Exhaust: in. H-O (kPa) 12 (50.0) Water Pump Dev Rate: GPM (liVmin) 151 (572) Heat Rejection to Coolant: BTUM (kW) 29,345 (614) Heat Rejection to Coolant: BTUM (kW) 3,686 (64.5) Heat Requirements 829 (35.3) Air Flow Required for Rad. Cooled Unit: CFM (m²/min) Consult Factory For Remote Cooled Applications Fleel Consumption Natural Gas LP Air Flow Required for Read: Cooled Unit: CFM (m²/min) Consult Factory For Remote Cooled Applications LP Full Consumption Natural Gas LP Air Tolos of Power Rating: R3/m (m3/m) <t< td=""><td>Manufacturer:</td><td>Power Solutions International</td><td>Displacement - Cu. In. (lit):</td><td>1,338 (21.9)</td></t<>	Manufacturer:	Power Solutions International	Displacement - Cu. In. (lit):	1,338 (21.9)		
Aspiration: Turbo Charged, CAC Reted RPM: 1800 Cylinder Arrangement: 12 Cylinder Vee Max HP Stby (kWin): 864 (510) Exhaust System Stackl: "F ("C) 1,136 (613) Gas Yolume at Stack Temp: CFM (m²/min) 2,529 (71.6) Maximum Allowable Exhaust Restriction (Post Catalyst): in. HzO (kPa) 7,40 (1.85) Cooling System Ambient Capacity of Radiator: "F ("C) 122 (50.0) Maximum Allowable Exhaust Restriction (Post Catalyst): in. HzO (kPa) 7,40 (1.85) Cooling System Ambient Capacity of Radiator: "F ("C) 122 (50.0) Maximum Allowable Staliato Pressure on Rad. Exhaust: in. HzO (kPa) 5,50 (0.12) Water Pump Flow Rate: SPM (lif/min) 151 (572) Heat Rejection to Coclant: BTUM (kW) 29,345 (514) Heat Rejection to Coclant: BTUM (kW) 29,345 (614) Heat Rejection to Coclant: BTUM (kW) 39,934 (614) Heat Replication to Coclant: BTUM (kW) 39,935 (1.132) Air Flow Required for Rad. Cooled Unit: CFM (m²/min) 39,995 (1.132) Air Flow Required for Rad. Cooled Unit: CFM (m²/min) 39,995 (1.132) Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m²/min) Consult Factory For Remote Cooled Applications Standy At 75% of Power Rating: ft3/hr (m3/hr) 1,101 (31.7) At 50% of Power Rating: ft3/hr (m3/hr) 3,963 (112) 1,110 (31.7) Fuel Pressure Required: in. HzO (kPa) 1,102 (75) Fuel Pressure Required: in. HzO (kPa) 1,102 (75) Fuel Pressure Required: in. HzO (kPa) 1,102 (75) Fuelds Capacity Total Oil System: gal (fit) 1,102 (45) 4,104 (40.0) Engine Jacket Water Capacity: gal (fit) 1,104 (40.0)	Model:	21.9L	Bore - in. (cm) x Stroke - in. (cm):	5.04 (12.8) x 5.59 (14.2)		
Exhaust System Standbytem Gas Temp. (Stack); "F"("C) 1,136 (613) Gas Volume at Stack Temp: CFM (m²/min) 2,529 (71.6) Maximum Allowable Schaust Restriction (Post Catalyst): in. HzO (kPa) 7,40 (1.85) Cooling System 122 (60.0) Ambient Capacity of Radiator: "F"("C) 122 (60.0) Maximum Allowable Static Pressure on Rad. Exhaust: in. HzO (kPa) 0,50 (0.12) Water Pump Flow Rate: GPM (lift/min) 151 (572) Heat Rejection to Coclant: STUM (kW) 29,346 (514) Heat Rejection to Coclant: STUM (kW) 3,686 (64.5) Heat Rejection to Carc: BTUM (kW) 3,686 (64.5) Air Requirements 39,995 (1,132) Air Requirements 39,995 (1,132) Air Flow Required for Rad. Cooled Unit: CFM (m²/min) 39,995 (1,132) Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m²/min) Consult Factory For Remote Cooled Applications Fuel Consumption Natural Gas LP At 100% of Power Rating: ff3/hr (m3/hr) 5,061 (143) 1,401 (39.6) At 75% of Power Rating: ff3/hr (m3/hr) 2,978 (84.) 860 (24.3) Fuel Inlest Size: NPT 3,000 1,10 (40.0) <td>Type:</td> <td>4-Cycle</td> <td>Compression Ratio:</td> <td>10.5 : 1</td>	Type:	4-Cycle	Compression Ratio:	10.5 : 1		
Exhaust System Standby Gas Temp. (Stack): "F ("C) 1,136 (613) Gas Volume at Stack Temp: CPM (m³/min) 2,529 (71.6) Meximum Allowable Exhaust Restriction (Post Catalyst): in. HzO (kPa) 7.40 (1.85) Cooling System 122 (50.0) Maximum Allowable Static Pressure on Rad. Exhaust: in. HsO (kPa) 122 (50.0) Maximum Allowable Static Pressure on Rad. Exhaust: in. HsO (kPa) 0.50 (0.12) Water Pump Flow Rate: GPM (iff/min) 151 (572) Heat Rejection to Coolant: BTUM (kW) 29,345 (514) Heat Rejection to CAC: BTUM (kW) 3,686 (84.5) Heat Rejection to CAC: BTUM (kW) 9,234 (162) Air Flow Required for Rad. Cooled Unit: CFM (m³/min) 829 (23.5) Air Flow Required for Rad. Cooled Unit: CFM (m³/min) Consult Factory For Remote Cooled Applications Stands Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) Consult Factory For Remote Cooled Applications Stands Fuel Consumption Natural Ga 1 Air 100% of Power Rating: tt3/hr (m3/hr) 5,061 (13) 1,101 (36.0) Air 75% of Power Rating: tt3/hr (m3/hr) 3,935 (112) 1,119 (31.7) At 75% of Power Rating: tt3/hr (m3/hr) 3,00° <td>Aspiration:</td> <td>Turbo Charged, CAC</td> <td>Rated RPM:</td> <td>1800</td>	Aspiration:	Turbo Charged, CAC	Rated RPM:	1800		
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Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) Standby	Aspirating: CFM (m³/min)			829 (23.5)		
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Fuel Pressure Required: in. H ₂ O (kPa) Fluids Capacity Total Oil System: gal (lit) Engine Jacket Water Capacity: gal (lit) 11.0 (2.75) 11.0 (2.75) 10.6 (40.0) 12.0 (45.4)	At 50% of Power Rating: ft3/hr ((m3/hr)	2,978 (84	4.3) 860 (24.3)		
Fluids Capacity Total Oil System: gal (lit) Engine Jacket Water Capacity: gal (lit) 10.6 (40.0) 12.0 (45.4)	Fuel Inlet Size: NPT			3.00"		
Total Oil System: gal (lit) Engine Jacket Water Capacity: gal (lit) 10.6 (40.0) 12.0 (45.4)	Fuel Pressure Required: in. H ₂ O	(kPa)		11.0 (2.75)		
Engine Jacket Water Capacity: gal (lit) 12.0 (45.4)	Fluids Capacity					
	Total Oil System: gal (lit)			10.6 (40.0)		
System Coolant Capacity: gal (lit) 51.0 (193)	Engine Jacket Water Capacity: g	gal (lit)		12.0 (45.4)		
	System Coolant Capacity: gal (lit)			51.0 (193)		

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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

Gaseous Product Line

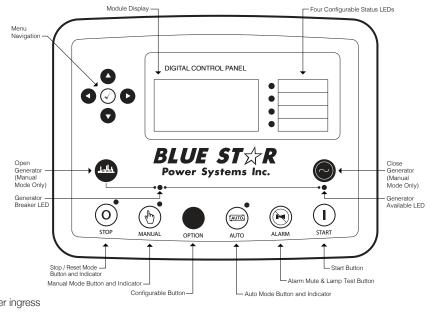
450 kWe



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

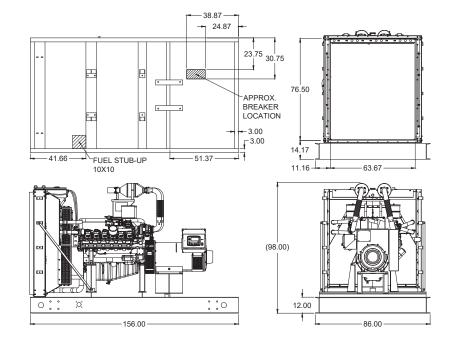


Weights / Dimensions / Sound Data

	LxWxH	Weight Ibs	
OPU	156 x 86 x 98 in	10,875	
Level 1	156 x 86 x 110 in	12,525	
Level 2	156 x 86 x 110 in	12,650	
Level 3	228 x 86 x 110 in	13,350	

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

	No Load	Full Load
OPU	84 dBA	87 dBA
Level 1	82 dBA	85 dBA
Level 2	77 dBA	80 dBA
Level 3	72 dBA	75 dBA



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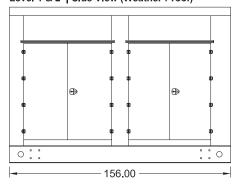
Gaseous Product Line

450 kWe

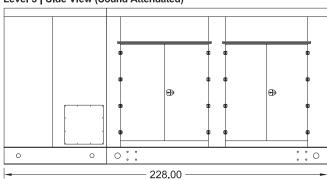


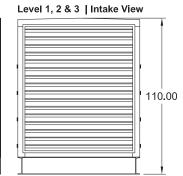
Enclosures

Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)





86.00

- 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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