

## Gaseous Product Line

### 208-600 Volt

### GM25-02

### 60 Hz / 1800 RPM

Standby

### 25 kWe

### 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	283PSL1707	283PSL1706	283PSL1706	283PSL1706	283PSL5250
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	25 (25)	25 (25)	25 (25)	25 (25)	25 (25)
AMPS Nat (LP)	104 (104)	87 (87)	75 (75)	38 (38)	30 (30)
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
- ▶ 12V 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 Formed Steel
- Main Line Circuit Breaker Mounted & Wired

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US

- Critical Grade Silencer Mounted
- Battery Charger 12V 6 Amp
- Jacket Water Heater -20°F 1000W 120V w/lsolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- ► Single Source Supplier
- > 2YR / 2000HR Standby Warranty
- Standard Colors White / Tan / Gray

# BLUE ST R Power Systems Inc.

### Application Data

Engine			
Manufacturer:	General Motors	Displacement - Cu. In. (lit):	181 (3.0)
Model:	GM 3.0L EPA	Bore - in. (cm) x Stroke - in. (cm):	4.0 (10.2) x 3.6 (9.1)
Туре:	4-Cycle	Compression Ratio:	9.3 : 1 1800
Aspiration:	Natural	Rated RPM:	
Cylinder Arrangement:	4 Cylinder Inline	Max HP Stby (kWm):	50.8 (37.9)
Exhaust System			
Gas Temp. (Stack): °F (°C)			1,220 (660)
Gas Volume at Stack Temp: CFM (m <sup>3</sup> /	ímin)		
Maximum Allowable Exhaust Restricti	ion: 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)			16.8 (63.6)
Heat Rejection to Coolant: BTUM (kW	)		1,436 (25.1)
Heat Rejection to CAC: BTUM (kW)			N/A
Heat Radiated to Ambient: BTUM (kW	)		326 (5.70)
Air Requirements			
Aspirating: CFM (m³/min)			94.3 (2.67)
Air Flow Required for Rad. Cooled Ur	nit: CFM (m³/min)		4,752 (135)
Air Flow Required for Heat Exchange	r/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Application	
Fuel Consumption		Natural Gas	LP
At 100% of Power Rating: ft3/hr (m3/h	nr)	431 (12.2)	184 (5.21)
At 75% of Power Rating: ft3/hr (m3/hr	)	339 (9.59)	140 (3.96)
At 50% of Power Rating: ft3/hr (m3/hr	)	262 (7.41)	104 (2.94)
Fuel Inlet Size: NPT		.75"	.75"
Fuel Pressure Required: in. H20 (kPa)		11 (2.7)	11 (2.7)
Fluids Capacity			
Total Oil System: gal (lit)			1.3 (4.90)
Engine Jacket Water Capacity: gal (lit)			1.0 (3.80)
System Coolant Capacity: gal (lit)			3.9 (14.80)

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 1000ft Over 328ft

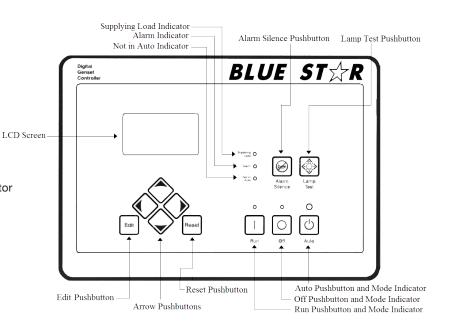
# Gaseous Product Line

# BLUE ST R 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

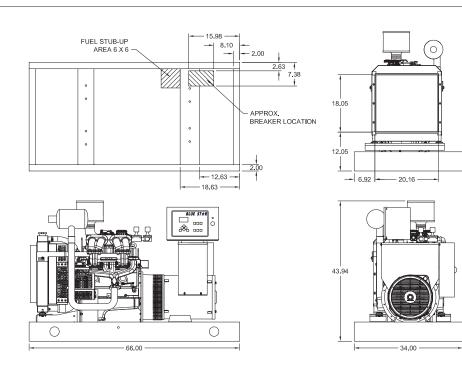


### Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	66 x 34 x 44 in	1050
Level 1	66 x 34 x 54 in	1325
Level 2	66 x 34 x 72 in	1425
Level 3	90 x 34 x 64 in	1575

Height measured from bottom of base to exhaust stack.

	No Load	Full Load	
OPU	76 dBA	78 dBA	
Level 1	74 dBA	76 dBA	
Level 2	70 dBA	73 dBA	
Level 3	65 dBA	67 dBA	

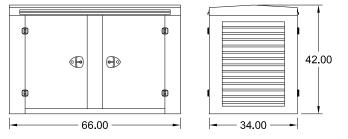


Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

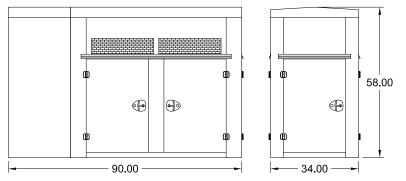


### **Optional Enclosures**

#### Level 1 Enclosure (WPE)



#### Level 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.

Rev1.1

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

\*\*\*Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:	



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#### Level 2 Enclosure (WPF)

