BLUE STAR
Power Systems Inc.

Gaseous Product Line

208-600 Volt

NG400-01

60 Hz / 1800 RPM

400 kWe

Standby

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	573RSL4035	433CSL6220	433CSL6220	433CSL6220	433PSL6248
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	400 (250)	400 (250)	400 (250)	400 (250)	400 (250)
AMPS Nat (LP)	1667 (1042)	1390 (868)	1204 (753)	602 (376)	482 (301)
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
- 24V 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

- Microprocessor Based Digital Control
- Base - Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Critical Grade Silencer Mounted
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20˚F 5000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- Single Source Supplier
- 2YR / 2000HR Standby Warranty
- Standard Colors - White / Tan / Gray

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Application Data

Engine			
Manufacturer:	NGE	Displacement - Cu. In. (lit):	1,338 (21.9)
Model:	D219TIC	Bore - in. (cm) x Stroke - in. (cm):	5.04 (12.8) x 5.59 (14.2)
Type:	4-Cycle	Compression Ratio:	10.5 : 1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	12 Cylinder Vee	Max HP Stby (kWm):	612 (457)

Exhaust System	
Gas Temp. (Stack): °F (°C)	1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)	2,995 (84.8)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	40.8 (10.2)
Cooling System	
Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa)	0.5 (0.12)
Water Pump Flow Rate: Gpm (lit/min)	174 (659)
Heat Rejection to Coolant: BTUM (kW)	25,760 (451)
Heat Rejection to CAC: BTUM (kW)	6,080 (106)
Heat Radiated to Ambient: BTUM (kW)	3,415 (59.8)
Air Requirements	
Aspirating: CFM (m³/min)	968 (27.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	40,000 (1,132)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications

Fuel Consumption	Natrual Gas	LP
At 100% of Power Rating: ft3/hr (m3/hr)	4,230 (120)	1,408 (39.8)
At 75% of Power Rating: ft3/hr (m3/hr)	3,297 (93.3)	1,200 (34.0)
At 50% of Power Rating: ft3/hr (m3/hr)	2,314 (65.5)	809 (22.9)
Fuel Inlet Size: NPT (Qty)	2.0” (2.0)	2.0” (2.0)
Fluids Capacity		
Total Oil System: gal (lit)		10.6 (40.0)
Engine Jacket Water Capacity: gal (lit)		13.8 (52.3)
System Coolant Capacity: gal (lit)		60.2 (228)

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 1000ft Over 1200ft

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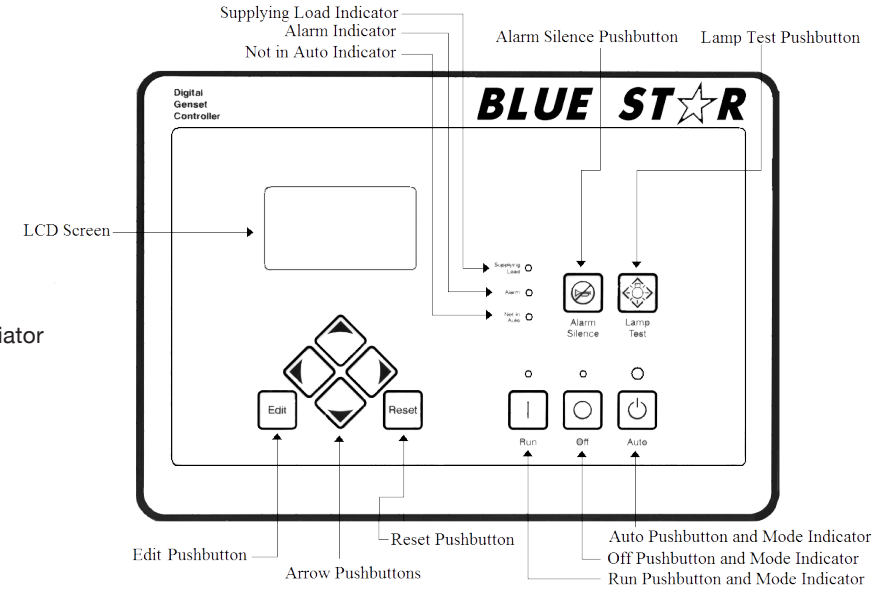
DGC-2020 Control Panel

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

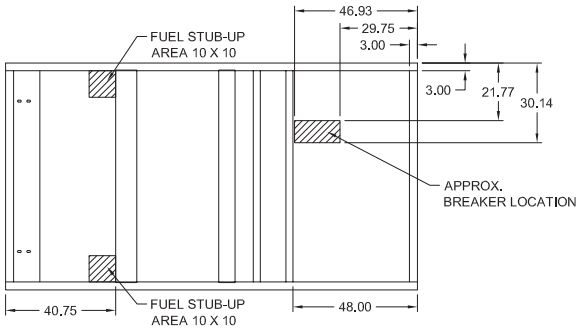


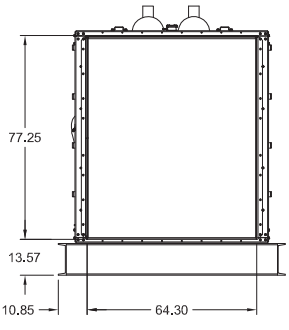
Weights / Dimensions / Sound Data

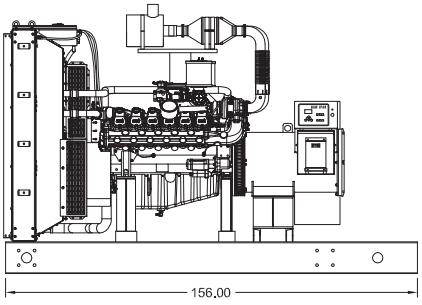
	L x W x H	Weight lbs
OPU	156 x 76 x 90 in	9863
Level 1	156 x 86 x 116 in	12,160
Level 2	N/A	N/A
Level 3	288 x 86 x 116 in	13,506

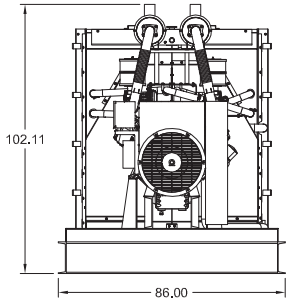
Height measured from bottom of base to exhaust stack.

	No Load	Full Load
OPU	83 dBA	86 dBA
Level 1	81 dBA	84 dBA
Level 2	N/A	N/A
Level 3	72 dBA	74 dBA





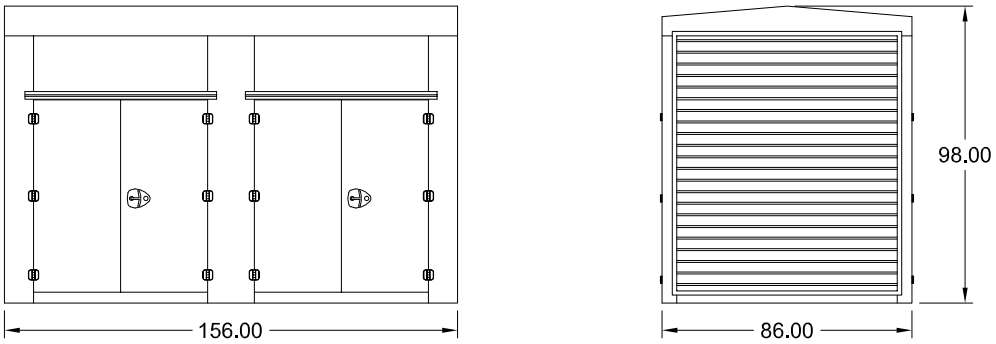




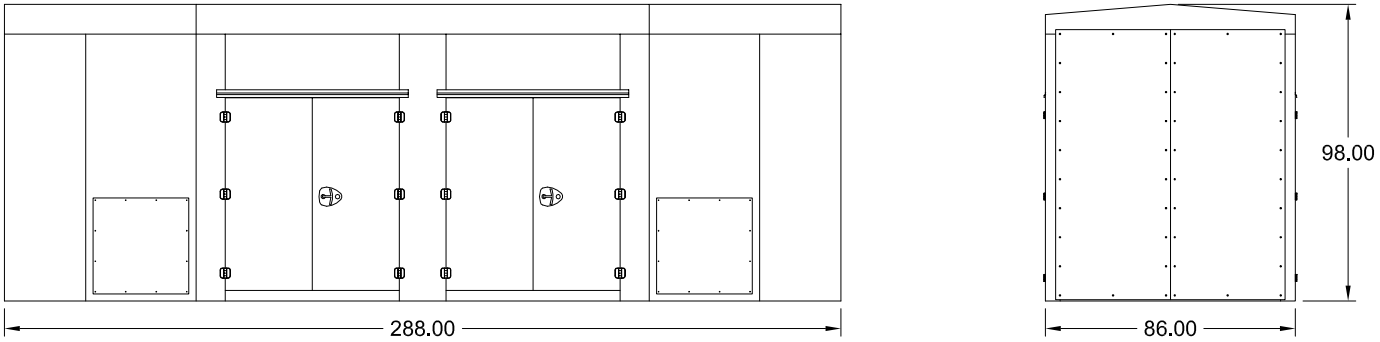
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice.
Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

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 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.

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

***Level 1 enclosure not UL listed.

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