

208-600 Volt

NG425-01 60 Hz / 1800 RPM

425 kWe Standby

### Ratings

	208V	240V	480 <b>V</b>	600 <b>V</b>
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	574RSL4025	572RSL4025	572RSL4025	572RSS4270
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	425 (300)	425 (300)	425 (300)	425 (300)
AMPS Nat (LP)	1476 (1042)	1280 (903)	639 (451)	512 (361)
Temp Rise	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
- ▶ ± .25% 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
- ▶ Catalysts/Silencers 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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#### 425 kWe



# Application Data

Engine			
Manufacturer:	NGE	Displacement - Cu. In. (lit):	1,338 (21.9)
Model:	D219TICHO	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):	649 (484)

Exhaust System		
Gas Temp. (Stack): °F (°C)		1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)		3,179 (89.8)
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)		27,342 (479)
Heat Rejection to CAC: BTUM (kW)	C: BTUM (kW) 6,454 (113)	
eat Radiated to Ambient: BTUM (kW) 3,629		3,629 (63.5)
Air Requirements		
Aspirating: CFM (m³/min)		1027 (29.1)
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)	4,490 (127)	1,495 (42.3)
At 75% of Power Rating: ft3/hr (m3/hr)	3,500 (99.0)	1,234 (36.0)
At 50% of Power Rating: ft3/hr (m3/hr)	2,456 (69.54)	849 (24.0)
Fuel Inlet Size: NPT (Qty)	3" (2)	3" (2)
Fuel Pressure Required: in. H20 (kPa)	11 (2.7)	11 (2.7)
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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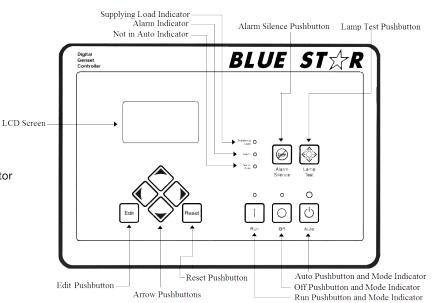
#### 425 kWe



### 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

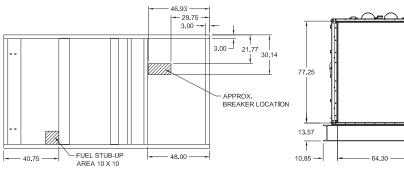


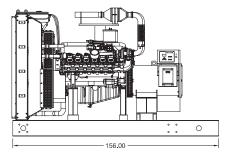
## Weights / Dimensions / Sound Data

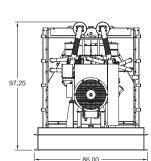
	LxWxH	Weight lbs
OPU	156 x 86 x 97 in	10575
Level 1	156 x 86 x 116 in	12675
Level 2	N/A	N/A
Level 3	288 x 86 x 108 in	14100

Height measured from bottom of base to exhaust stack.

	No Load	Full Load	
OPU	83 dBA	87 dBA	
Level 1	81 dBA	85 dBA	
Level 2	N/A	N/A	
Level 3	72 dBA	75 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.

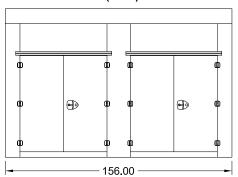
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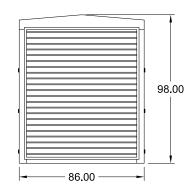
#### 425 kWe



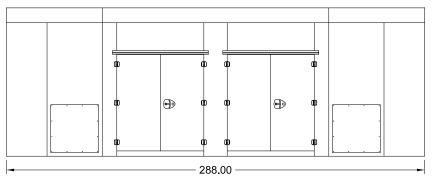
# Optional Enclosures

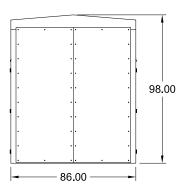
#### Level 1 Enclosure (WPE)





#### Level 3 Enclosure (SAE)





Materials and specifications subject to change without notice.

Distributed By:



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<sup>\*</sup>Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).

<sup>\*\*</sup>Level 3 enclosures are 150 MPH Wind Rated as standard.

<sup>\*\*\*</sup>Enclosure height does not include unit base or exhaust stack.

<sup>\*</sup>All specification sheet dimensions are represented in inches.

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

<sup>\*\*\*</sup>Level 1 enclosure not UL listed.