BLUE STAR
Power Systems Inc.

Diesel Product Line

208-600 Volt

TD400-01 / TD400-01P

60 Hz / 1800 RPM

400 kWe / 360 kWe

Standby / Prime

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	433CSL6220	433CSL6220	433CSL6220	433PSL6248
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby				
kWe	400	400	400	400
AMPS	1390	1204	602	482
Temp Rise	130˚C / 27˚C	130˚C / 27˚C	130˚C / 27˚C	130˚C / 27˚C
Prime [Only Available For Mobile Applications]				
kWe	360	360	360	360
AMPS	1251	1084	542	434
Temp Rise	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚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
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connector
- EPA Certified Tier 3

Listing Certifications
- UL 2200 Listed
- cUL Listed
- CSA Certified
- Seismic Certified to IBC 2012

Generator
- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1% Voltage Regulation
- 4 Pole, Rotating Field
- 130˚C Standby Temperature Rise
- 105˚C Prime 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
- Interface Connection Box
- Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- Main Line Circuit Breaker Mounted & Wired
- Critical Grade Silencer Mounted
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20˚F 4000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- Single Source Supplier
- 2YR / 2000HR Standby Warranty
- 1YR / 1500HR Prime Warranty
- Standard Colors - White / Tan / Gray

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400 kWe / 360 kWe

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Application Data

Engine			
Manufacturer:	MTU	Displacement - Cu. In. (lit):	854 (14.0)
Model Standby (Prime):	8V1600G80S (8V1600G20S)	Bore - in. (cm) x Stroke - in. (cm):	4.80 (12.2) x 5.91 (15.0)
Type:	4-Cycle	Compression Ratio:	17.5:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	8 Cylinder Vee	Max HP Stby (kWm):	601 (448)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	892 (478)	887 (475)
Gas Volume at Stack Temp: CFM (m³/min)	3,180 (90.0)	2,966 (83.9)
Maximum Allowable Exhaust Restriction: in. H_2O (kPa)	60.2 (15.0)	60.2 (15.0)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H_2O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	95.0 (360)	95.0 (360)
Heat Rejection to Coolant: BTUM (kW)	11,658 (204)	11,658 (204)
Heat Rejection to CAC: BTUM (kW)	6,824 (119)	6,824 (119)
Heat Radiated to Ambient: BTUM (kW)	3,358 (58.8)	2,818 (49.3)
Air Requirements		
Aspirating: CFM (m³/min)	1,145 (32.4)	1,124 (31.8)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	18,010 (510)	18,010 (510)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications	
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	28.0 (106)	26.1 (98.8)
At 75% of Power Rating: gal/hr (lit/hr)	23.0 (87.1)	21.3 (80.6)
At 50% of Power Rating: gal/hr (lit/hr)	17.5 (66.2)	15.8 (59.8)
Fluids Capacity		
Total Oil System: gal (lit)	12.2 (46.2)	12.2 (46.2)
Engine Jacket Water Capacity: gal (lit)	13.2 (50.0)	13.2 (50.0)
System Coolant Capacity: gal (lit)	21.2 (80.3)	21.2 (80.3)

Deration Factors

Rated power available at ambient temperatures to 50°C. Derate 3% per 1,640 ft (500 m) above 4,920 ft (1,500 m).
Consult factory for site conditions above these parameters.

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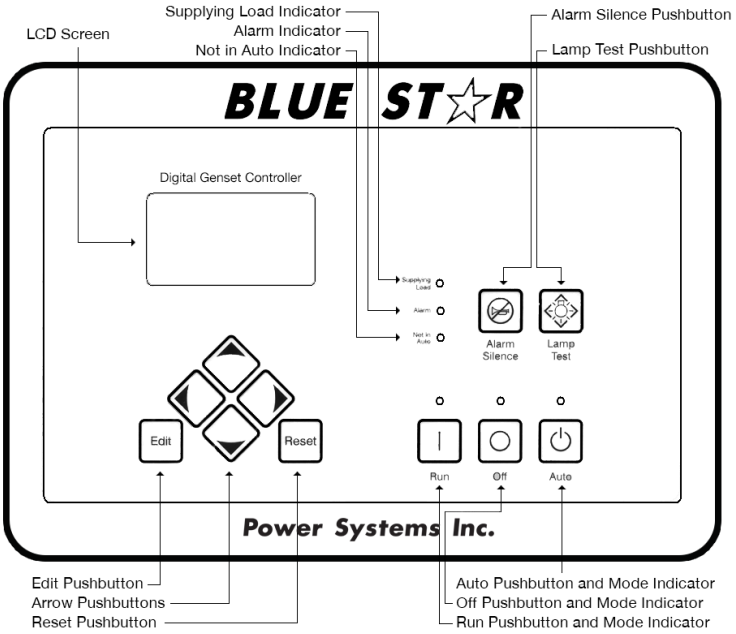
DGC-2020 Control Panel

Standard Features

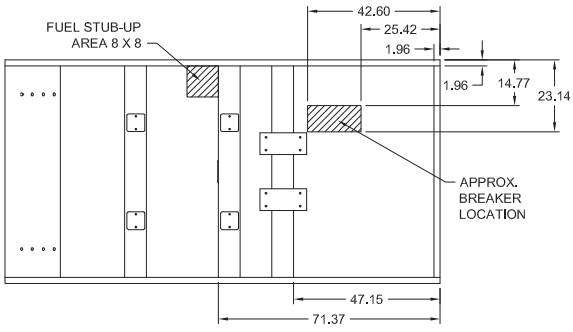
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- Up to 15 Contact Outputs (7 standard)
- UL Recognized, CSA Certified, CE Approved
- Event Recording
- IP 54 Front Panel Rating with Integrated Gasket
- NFPA 110 Level 1 Compatible

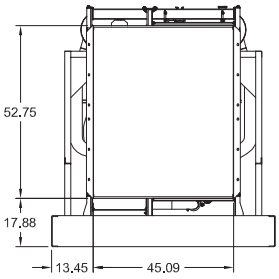


Weights / Dimensions / Sound Data

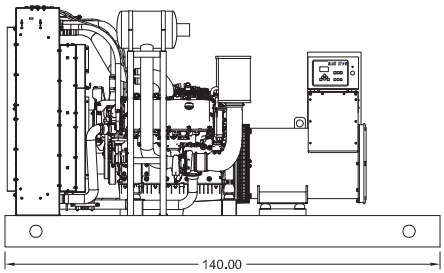
	L x W x H	Weight lbs
OPU	140 x 72 x 78 in	9,375
Level 1	180 x 72 x 103 in	9,875
Level 2	180 x 72 x 103 in	9,950
Level 3	225 x 72 x 103 in	10,350

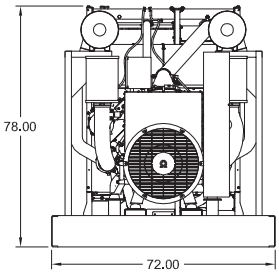
Please allow 6-12 inches for height of exhaust stack.





	No Load	Full Load
OPU	87 dBA	89 dBA
Level 1	85 dBA	87 dBA
Level 2	81 dBA	83 dBA
Level 3	71 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.

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400 kWe / 360 kWe

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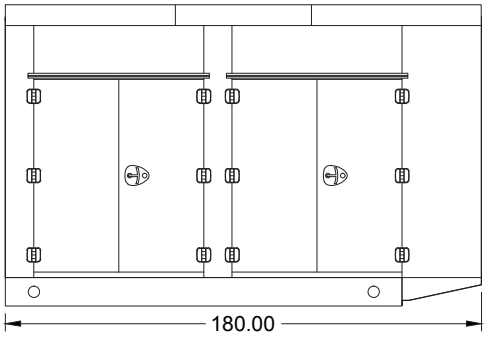
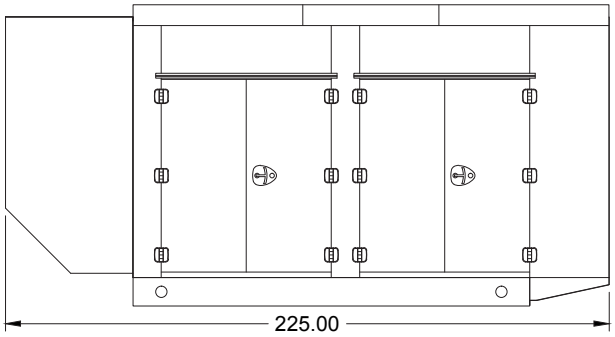
Enclosures

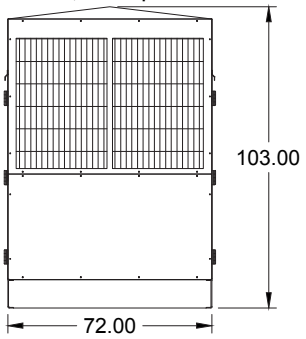
Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)



Level 1, 2 & 3 | Intake View

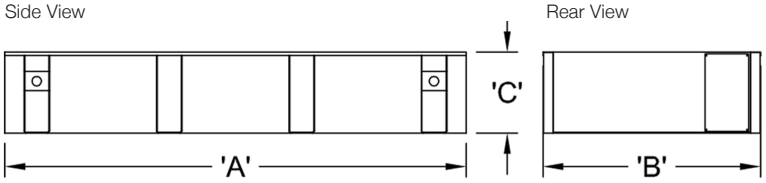


All enclosures are 150 MPH Wind Rated.
Level 2 & 3 enclosures include sound attenuation foam.
Level 3 enclosure includes frontal sound & exhaust hood.
*Enclosure height does not include exhaust stack.

Double Wall UL 142 Listed Fuel Tanks

Side View

Rear View



	24 Hour 710 Gallon	48 Hour 1420 Gallon	72 Hour 2130 Gallon
A	140.00	180.00	250.00
B	72.00	72.00	72.00
C	24.00	36.00	36.00

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.
Materials and specifications subject to change without notice.

American Owned

American Made

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