

208-600 Volt

TD550-01 / TD550-01P

60 Hz / 1800 RPM

550 kWe / 500 kWe Standby / Prime

Ratings

| | 208V | 240V | 480 V | 600 V |
|--|--------------|---------------|--------------|--------------|
| Phase | 3 | 3 | 3 | 3 |
| PF | 0.8 | 0.8 | 0.8 | 0.8 |
| Hz | 60 | 60 | 60 | 60 |
| Generator Model | 572RSL4031 | 572RSL4031 | 572RSL4029 | 572RSS4272 |
| Connection | 12 LEAD WYE | 12 LEAD DELTA | 12 LEAD WYE | 4 LEAD WYE |
| Standby | | | | |
| kWe | 550 | 550 | 550 | 550 |
| AMPS | 1911 | 1656 | 828 | 662 |
| 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 | 500 | 500 | 500 | 500 |
| AMPS | 1736 | 1505 | 753 | 602 |
| 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 2

Listing Certifications

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ► CSA Certified
- ▶ Seismic Certified to IBC 2012

Generator

- ▶ Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± .25% 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 Structural Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Critical Grade Silencer Mounted
- ► Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 6000W 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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550 kWe / 500 kWe



Application Data

| Engine | | | |
|------------------------|---------------------------|--------------------------------------|---------------------------|
| Manufacturer: | MTU | Displacement - Cu. In. (lit): | 1282 (21.0) |
| Model Standby (Prime): | 12V1600G70S (12V1600G10S) | Bore - in. (cm) x Stroke - in. (cm): | 4.72 (12.0) x 5.91 (15.0) |
| Type: | 4-Cycle | Compression Ratio: | 17.5:1 |
| Aspiration: | Turbo Charged, CAC | Rated RPM: | 1800 |
| Cylinder Arrangement: | 12 Cylinder Vee | Max HP Stby (kWm): | 822 (613) |

| Exhaust System | Standby | Prime |
|---|---------------------------|-----------------------|
| Gas Temp. (Stack): °F (°C) | 775 (413) | 754 (401) |
| Gas Volume at Stack Temp: CFM (m³/min) | 4,450 (126) | 4,026 (114) |
| Maximum Allowable Exhaust Restriction: in. H ₂ O (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 ₂ O (kPa) | 0.50 (0.12) | 0.50 (0.12) |
| Water Pump Flow Rate: GPM (lit/min) | 137 (517) | 137 (517) |
| Heat Rejection to Coolant: BTUM (kW) | 13,762 (241) | 12,681 (223) |
| Heat Rejection to CAC: BTUM (kW) | 8,530 (149) | 7,051 (123) |
| Heat Radiated to Ambient: BTUM (kW) | 4,539 (79.4) | 4,127 (72.2) |
| Air Requirements | | |
| Aspirating: CFM (m³/min) | 1,844 (52.2) | 1,653 (46.8) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 26,700 (756) | 26,700 (756) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | Consult Factory For Remot | e Cooled Applications |
| Fuel Consumption | | |
| At 100% of Power Rating: gal/hr (lit/hr) | 37.1 (140) | 35.0 (132) |
| At 75% of Power Rating: gal/hr (lit/hr) | 28.0 (106) | 26.9 (102) |
| At 50% of Power Rating: gal/hr (lit/hr) | 19.9 (75.3) | 18.6 (70.4) |
| Fluids Capacity | | |
| Total Oil System: gal (lit) | 19.3 (73.1) | 19.3 (73.1) |
| Engine Jacket Water Capacity: gal (lit) | 17.2 (65.1) | 17.2 (65.1) |
| System Coolant Capacity: gal (lit) | 28.1 (106) | 28.1 (106) |

Deration Factors

Rated power available at ambient temperatures to 50°C. Derate 3% per 1,640 ft (500 m) above 6,560 ft (2,000 m). Consult factory for site conditions above these parameters.

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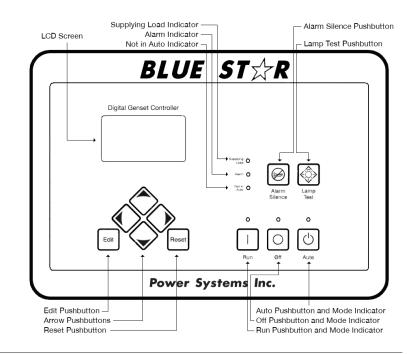
550 kWe / 500 kWe



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

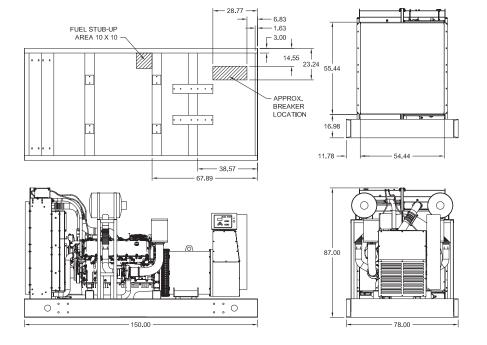


Weights / Dimensions / Sound Data

| | LxWxH | Weight Ibs |
|---------|-------------------|------------|
| OPU | 150 x 78 x 87 in | 10,600 |
| Level 1 | 200 x 78 x 110 in | 12,300 |
| Level 2 | 200 x 78 x 110 in | 12,400 |
| Level 3 | 255 x 78 x 110 in | 12,875 |

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

| | No Load | Full Load |
|---------|---------|-----------|
| OPU | 91 dBA | 94 dBA |
| Level 1 | 89 dBA | 91 dBA |
| Level 2 | 84 dBA | 87 dBA |
| Level 3 | 74 dBA | 77 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.

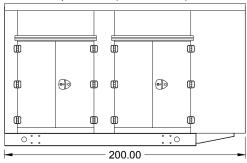
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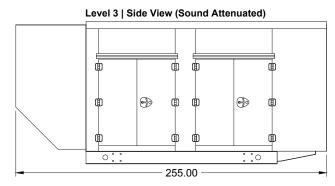
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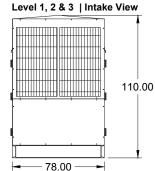


Enclosures

Level 1 & 2 | Side View (Weather Proof)







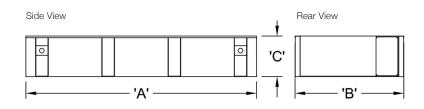
All enclosures are 150 MPH Wind Rated.

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



| | 24 Hour 1000 Gallon | 48 Hour 2000 Gallon | 72 Hour 3000 Gallon |
|---|------------------------|------------------------|------------------------|
| Δ | 150.00 | 228.00 | 336.00 |
| ^ | 130.00 | 220.00 | 330.00 |
| В | 78.00 | 78.00 | 78.00 |
| С | 30.00 | 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 Made

Blue Star Power Systems, Inc.

52146 Ember Road Lake Crystal, Minnesota 56055 Phone + 1 507 726 2508 bluestarps.com quote.bluestarps.com

sales@bluestarps.com

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