

208-600 Volt

MD800-01 60 Hz / 1800 RPM

800 kWe / 735 kWe Standby / Prime

Ratings

| | 208V | 240V | 480 V | 600V |
|-----------------|--------------|--------------|--------------|--------------|
| Phase | 3 | 3 | 3 | 3 |
| PF | 0.8 | 0.8 | 0.8 | 0.8 |
| Hz | 60 | 60 | 60 | 60 |
| Generator Model | 574RSL4038 | 574RSL4038 | 574RSL4037 | 574RSS4278 |
| Connection | 4 LEAD WYE | 4 LEAD DELTA | 12 LEAD WYE | 4 LEAD WYE |
| Standby | | | | |
| kWe | 800 | 800 | 800 | 800 |
| AMPS | 2779 | 2408 | 1204 | 963 |
| Temp Rise | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C |
| Prime | | | | |
| kWe | 735 | 735 | 735 | 735 |
| AMPS | 2553 | 2213 | 1106 | 885 |
| 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
- ▶ SAE Flywheel Housing
- ▶ Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connectors
- ▶ EPA Certified Tier 2

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
- ▶ Base Structural Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Critical Grade Silencer Loose
- ► Exhaust Flex Connector
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 2 Qty: 5000W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts (Pad Type)
- ▶ Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- > 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Colors White / Tan / Gray

MD800-01

800 kWe / 735 kWe



Application Data

| Engine | | | |
|-----------------------|---|--------------------------------------|--------------------------|
| Manufacturer: | Mitsubishi | Displacement - Cu. In. (lit): | 2,071 (33.9) |
| Model: | S12AZ-Y2PTAW-2 | Bore - in. (cm) x Stroke - in. (cm): | 5.91 (15.0) x 6.3 (16.0) |
| Type: | 4-Cycle | Compression Ratio: | 15.3:1 |
| Aspiration: | Turbo Charged, H ₂ O/Air Intercooled | Rated RPM: | 1800 |
| Cylinder Arrangement: | 12 Cylinder Vee | Max HP Stby (kWm): | 1,207 (900) |

| Exhaust System | Standby | Prime |
|--|---|----------------|
| Gas Temp. (Stack): °F (°C) | 883 (473) | 860 (460) |
| Gas Volume at Stack Temp: CFM (m³/min) | 8,192 (232) | 7,062 (200) |
| Maximum Allowable Exhaust Restriction: in. H2O (kPa) | 23.6 (5.9) | 23.6 (5.9) |
| Cooling System | | |
| Ambient Capacity of Radiator: °F (°C) | 122 (50.0) | 122 (50.0) |
| Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa) | 0.5 (0.12) | 0.5 (0.12) |
| Water Pump Flow Rate: Gpm (lit/min) | 291 (1,102) | 291 (1,102) |
| Heat Rejection to Coolant: BTUM (kW) | 20,418 (357) | 17,531 (307) |
| Heat Rejection to Intercooler: BTUM (kW) | 16,043 (281) | 13,774 (241) |
| Heat Radiated to Ambient: BTUM (kW) | 7,969 (139) | 7,321 (128) |
| Air Requirements | | |
| Aspirating: CFM (m³/min) | 3,107 (87.9) | 2,648 (74.9) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 44,950 (1,272) | 44,950 (1,272) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | Consult Factory For Remote Cooled Application | ns |
| Fuel Consumption | | |
| At 100% of Power Rating: gal/hr (lit/hr) | 67.4 (255) | 58.7 (222) |
| At 75% of Power Rating: gal/hr (lit/hr) | 46.1 (175) | 42.0 (159) |
| At 50% of Power Rating: gal/hr (lit/hr) | 31.3 (119) | 28.6 (108) |
| Fluids Capacity | | |
| Total Oil System: gal (lit) | 31.7 (120) | 31.7 (120) |
| Engine Jacket Water Capacity w/Intercooler: gal (lit) | 26.4 (100) | 26.4 (100) |
| System Coolant Capacity: gal (lit) | 80.0 (303) | 80.0 (303) |

Deration Factors

Altitude: Derate 0.5% per 328 ft (100 m) above 3280 ft (1000 m) standby and prime. | Temperature: Derate 1.0% per 18°F (10°C) above 104°F (40°C) standby and prime. Consult factory for site conditions above these parameters.

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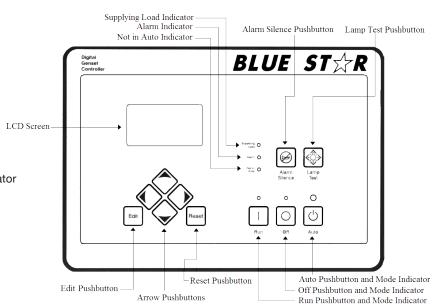
800 kWe / 735 kWe



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 Compatible



Weights / Dimensions / Sound Data

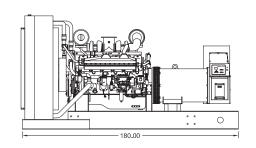
| | LxWxH | Weight lbs |
|---------|-------------------|------------|
| OPU | 180 x 75 x 95 in | 16,750 |
| Level 1 | 200 x 90 x 108 in | 18,850 |
| Level 2 | N/A | N/A |
| Level 3 | 344 x 90 x 108 in | 21,000 |

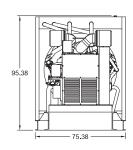
Height measured from bottom of base to top of enclosure.

| 48.13 ———————————————————————————————————— |
|--|
| FUEL STUB-UP |
| 95.50 ———— AREA 12 X 12 |

| ĺ | |
|--------|-------|
| 67.75 | |
| 67.75 | |
| 16.58 | |
| 2.60 - | 70.18 |

| | No Load | Full Load |
|---------|---------|-----------|
| OPU | 87 dBA | 90 dBA |
| Level 1 | 86 dBA | 88 dBA |
| Level 2 | N/A | N/A |
| Level 3 | 74 dBA | 78 dBA |





3

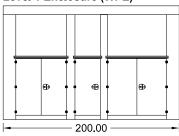
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

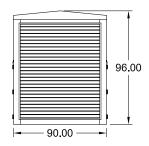
800 kWe / 735 kWe



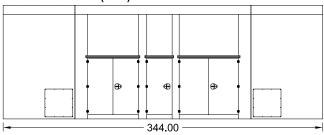
Optional Enclosures and Fuel Tanks

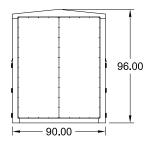
Level 1 Enclosure (WPE)



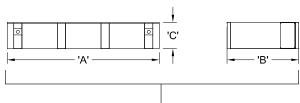


Level 3 Enclosure (SAE)





^{*}Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).



| | 12 Hour (900 Gallon) | | 24 Hour (18 | 24 Hour (1800 Gallon) | | | 36 Hour (3600 Gallon) | | |
|---------|----------------------|-------|-------------|-----------------------|-------|-------|-----------------------|-------|-------|
| | A | В | С | Α | В | С | Α | В | С |
| OPU | CF | CF | CF | CF | CF | CF | CF | CF | CF |
| Level 1 | 200.00 | 90.00 | 20.00 | 200.00 | 90.00 | 36.00 | 360.00 | 90.00 | 36.00 |
| Level 2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Level 3 | 344.00 | 90.00 | 10.00 | 344.00 | 90.00 | 20.00 | 360.00 | 90.00 | 36.00 |

^{*}All specification sheet dimensions are represented in inches.

Materials and specifications subject to change without notice.

Distributed By:



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^{**}Level 3 enclosures are 150 MPH Wind Rated as standard.

^{***}Enclosure height does not include unit base.

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

^{***}Level 1 enclosure not UL listed.