



## Diesel Product Line

**208-600 Volt**

**MD2000-01**

**60 Hz / 1800 RPM**

**2000 kWe / 1850 kWe**

**Standby / Prime**

## Ratings

|                        | 208V            | 240V            | 480V         | 600V         |
|------------------------|-----------------|-----------------|--------------|--------------|
| <b>Phase</b>           | 3               | 3               | 3            | 3            |
| <b>PF</b>              | 0.8             | 0.8             | 0.8          | 0.8          |
| <b>Hz</b>              | 60              | 60              | 60           | 60           |
| <b>Generator Model</b> | Consult Factory | Consult Factory | 744RSL4054   | 743RSS4292   |
| <b>Connection</b>      | 4 LEAD WYE      | 4 LEAD DELTA    | 4 LEAD WYE   | 4 LEAD WYE   |
| <b>Standby</b>         |                 |                 |              |              |
| <b>kWe</b>             | 2000            | 2000            | 2000         | 2000         |
| <b>AMPS</b>            | 6948            | 6021            | 3011         | 2408         |
| <b>Temp Rise</b>       | Consult Factory | Consult Factory | 130°C / 27°C | 130°C / 27°C |
| <b>Prime</b>           |                 |                 |              |              |
| <b>kWe</b>             | 1850            | 1850            | 1850         | 1850         |
| <b>AMPS</b>            | 6426            | 5569            | 2785         | 2228         |
| <b>Temp Rise</b>       | Consult Factory | Consult Factory | 105°C / 40°C | 105°C / 40°C |

## Standard Equipment

- |   |  |   |
|---|--|---|
| <p><b>Engine</b></p> <ul style="list-style-type: none"> <li>▶ Radiator Cooled Unit Mounted (50°C)</li> <li>▶ Blower Fan &amp; Fan Drive</li> <li>▶ Starter &amp; Alternator</li> <li>▶ Oil Pump &amp; Filter</li> <li>▶ Oil Drain Extension w/Valve</li> <li>▶ Governor - Electronic Isochronous</li> <li>▶ 24V Battery System &amp; Cables</li> <li>▶ Air Cleaner (Dry Single Stage)</li> <li>▶ Flexible Fuel Connector</li> <li>▶ EPA Certified Tier 2</li> </ul> <p><b>Listing Certifications</b></p> <ul style="list-style-type: none"> <li>▶ UL 2200 Listed</li> <li>▶ cUL Listed</li> <li>▶ CSA Certified</li> <li>▶ Seismic Certified to IBC 2012</li> </ul> | <p><b>Generator</b></p> <ul style="list-style-type: none"> <li>▶ Brushless Single Bearing</li> <li>▶ Automatic Voltage Regulator</li> <li>▶ ± .25% Voltage Regulation</li> <li>▶ 4 Pole, Rotating Field</li> <li>▶ 130°C Standby Temperature Rise</li> <li>▶ 105°C Prime Temperature Rise</li> <li>▶ 100% of Rated Load - One Step</li> <li>▶ 5% Maximum Harmonic Content</li> <li>▶ NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise</li> </ul> | <p><b>Additional</b></p> <ul style="list-style-type: none"> <li>▶ Microprocessor Based Digital Control</li> <li>▶ Interface Connection Box</li> <li>▶ Control Panel Mounted in NEMA 12 Enclosure</li> <li>▶ Base - Structural Steel</li> <li>▶ Main Line Circuit Breaker Mounted &amp; Wired</li> <li>▶ Critical Grade Silencer Loose</li> <li>▶ Catalyst / Silencer Mounted (Prime)</li> <li>▶ Battery Charger 24V 5 Amp</li> <li>▶ Jacket Water 2 Qty: 9000W 240V w/Isolation Valves</li> <li>▶ Vibration Isolation Mounts (Pad Type)</li> <li>▶ Radiator Duct Flange (OPU Only)</li> <li>▶ Single Source Supplier</li> <li>▶ 2YR / 2000HR Standby Warranty</li> <li>▶ 1YR / 1500HR Prime Warranty</li> <li>▶ Standard Colors - White / Tan / Gray</li> </ul> |
|---|--|---|

# Diesel Product Line

2000 kWe / 1850 kWe



**POWERDAK**  
POWER PRODUCTS, LLC

## Application Data

### Engine

|                       |   |                                      |                           |
|-----------------------|---|--------------------------------------|---------------------------|
| Manufacturer:         | Mitsubishi                                      | Displacement - Cu. In. (lit):        | 3,989 (65.4)              |
| Model:                | S16R-Y2PTAW2-1                                  | Bore - in. (cm) x Stroke - in. (cm): | 6.69 (17.0) x 7.09 (18.0) |
| Type:                 | 4-Cycle   | Compression Ratio:                   | 14.5:1                    |
| Aspiration:           | Turbo Charged, H <sub>2</sub> O/Air Intercooled | Rated RPM:                           | 1800                      |
| Cylinder Arrangement: | 16 Cylinder Vee                                 | Max HP Stby (kWm):                   | 2,923 (2,181)             |

### Exhaust System

|   | Standby      | Prime        |
|---|--------------|--------------|
| Gas Temp. (Stack): °F (°C)  | 979 (526)    | 882 (472)    |
| Gas Volume at Stack Temp: CFM (m <sup>3</sup> /min)               | 19,209 (544) | 17,302 (490) |
| Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa) | 23.6 (5.90)  | 23.6 (5.90)  |

### Cooling System

|   | Standby      | Prime        |
|---|--------------|--------------|
| Ambient Capacity of Radiator: °F (°C)   | 122 (50.0)   | 122 (50.0)   |
| Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa) | 0.50 (0.12)  | 0.50 (0.12)  |
| Jacket Water Pump Flow Rate: GPM (lit/min)                                    | 489 (1,851)  | 489 (1,851)  |
| Intercooler Pump Flow Rate: GPM (lit/min)                                     | 243 (920)    | 243 (920)    |
| Heat Rejection to Jacket Coolant: BTUM (kW)                                   | 44,374 (777) | 39,937 (699) |
| Heat Rejection to Intercooler: BTUM (kW)                                      | 44,374 (777) | 39,937 (699) |
| Heat Radiated to Ambient: BTUM (kW)   | 11,384 (199) | 10,530 (184) |

### Air Requirements

|  | Standby  | Prime          |
|--|--|----------------|
| Aspirating: CFM (m <sup>3</sup> /min)                                    | 7,274 (206)                                    | 6,532 (185)    |
| Air Flow Required for Rad. Cooled Unit: CFM (m <sup>3</sup> /min)        | 86,078 (2,436)                                 | 86,078 (2,436) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m <sup>3</sup> /min) | Consult Factory For Remote Cooled Applications |                |

### Fuel Consumption

|  | Standby     | Prime       |
|--|-------------|-------------|
| At 100% of Power Rating: gal/hr (lit/hr) | 160.1 (606) | 141.5 (535) |
| At 75% of Power Rating: gal/hr (lit/hr)  | 116.7 (442) | 106.6 (403) |
| At 50% of Power Rating: gal/hr (lit/hr)  | 79.0 (299)  | 71.7 (272)  |

### Fluids Capacity

|   | Standby    | Prime      |
|---|------------|------------|
| Total Oil System: gal (lit)                           | 52.8 (200) | 52.8 (200) |
| Engine Jacket Water Capacity w/Intercooler: gal (lit) | 44.9 (170) | 44.9 (170) |
| System Coolant Capacity: gal (lit)                    | 182 (689)  | 182 (689)  |

#### Deration Factors

Altitude: Derate 0.5% per 328 ft (100 m) above 3,280 ft (1,000 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.



# Diesel Product Line

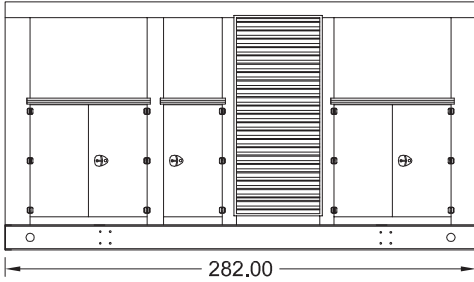
2000 kWe / 1850 kWe



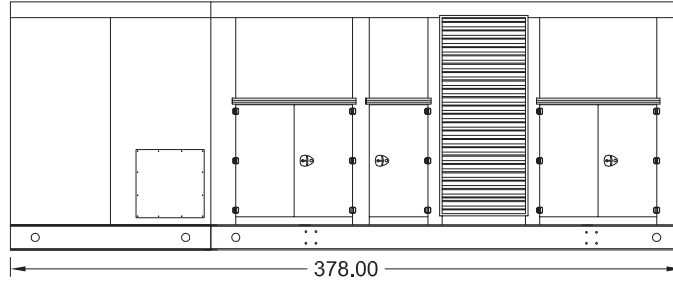
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## Enclosures

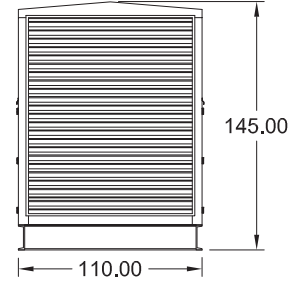
Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)



Level 1, 2 & 3 | Intake View



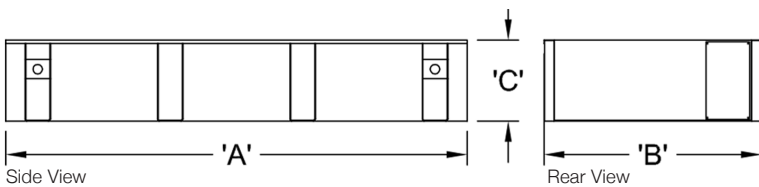
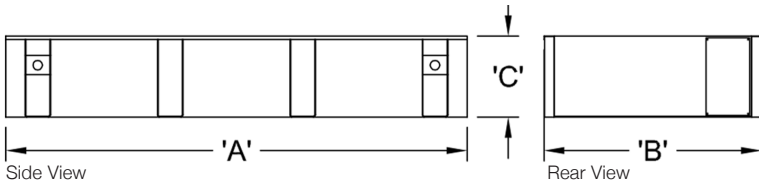
All enclosures are 150 MPH Wind Rated.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

\*Enclosure height does not include exhaust system.

## Double Wall UL 142 Listed Fuel Tanks



| OPU / Level 1 / Level 2 |                        |                        |                        |
|-------------------------|------------------------|------------------------|------------------------|
|                         | 12 Hour<br>1925 Gallon | 24 Hour<br>3850 Gallon | 48 Hour<br>7700 Gallon |
| <b>A</b>                | 282.00                 | 312.00                 | 576.00                 |
| <b>B</b>                | 110.00                 | 110.00                 | 110.00                 |
| <b>C</b>                | 22.00                  | 36.00                  | 36.00                  |

| Level 3  |                        |                        |                        |
|----------|------------------------|------------------------|------------------------|
|          | 12 Hour<br>1925 Gallon | 24 Hour<br>3850 Gallon | 48 Hour<br>7700 Gallon |
| <b>A</b> | 378.00                 | 378.00                 | 576.00                 |
| <b>B</b> | 110.00                 | 110.00                 | 110.00                 |
| <b>C</b> | 16.00                  | 28.00                  | 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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