# DIESEL POWER MODULE DP1000D6S 

## Voltages:

1000 kWe / 60 Hz / Prime - 480V, 600V

SYSTEM RATINGS

| Prime | DP 1000D6SRA | DP1000D6SNA |
| :---: | :---: | :---: |
| Voltage (L-L) | 480 V | 600 V |
| Phase | 3 | 3 |
| PF | 0.8 | 0.8 |
| Hz | 60 | 60 |
| kW | 1000 | 1000 |
| kVA | 1250 | 1250 |
| Amps | 1504 | 1203 |
| skVA@30\% |  |  |
| Voltage Dip | 3200 | 2600 |
| Generator Model | 740RSL4046 | 741RSS4284 |
| Temp Rise | $105^{\circ} \mathrm{C} / 40^{\circ} \mathrm{C}$ | $105{ }^{\circ} \mathrm{C} / 40^{\circ} \mathrm{C}$ |
| Connection | 4 LEAD WYE | 4 LEAD WYE |

## CERTIFICATIONS AND STANDARDS

// Emissions - EPA Tier 2 Certified
// Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004

## // Power Rating

- Accepts Rated Load in One Step Per NFPA 110
- Permissible average power output during 24 hours of operation is approved up to $75 \%$.
// Performance Assurance Certification (PAC)
- Generator Set Tested to ISO 8528-5 for Transient Response
- Verified product design, quality and performance integrity
- All engine systems are prototype and factory tested


## STANDARD FEATURES*

| // MTU Onsite Energy is a single source supplier | // |
| :--- | :--- |
| // Generator |  |
| // 2 Year Standard Warranty | - Brushless, Rotating Field Generator |
| // 18V 2000 Diesel Engine | $-2 / 3$ Pitch Windings |
| - 35.8 Liter Displacement | - PMG (Permanent Magnet Generator) supply to regulator |
| - 4-Cycle | $-300 \%$ Short Circuit Capability |
| // Engine-generator resilient mounted | - Voltage Adjust Toggle Switch |
| // Complete Range of Accessories | // Digital Control Panel |
|  | - UL Recognized, CSA Certified, NFPA 110 |
|  | - Complete System Metering |
|  | - LCD Display |
|  | // Cooling System |
|  | - Remote Mounted |
|  | - Electrically Driven Fan |

STANDARD EQUIPMENT*

| // Engine | Brushless Alternator with Brushless Pilot Exciter |
| :---: | :---: |
|  | 4 Pole, Rotating Field |
| Air Cleaners - Heavy Duty Two Stage | $105{ }^{\circ} \mathrm{C}$ Maximum Prime Temperature Rise |
| Oil Pump | 2 Bearings |
| Oil Drain Extension \& S/O Valve | Flexible Coupling |
| Full Flow Oil Filters | Full Amortisseur Windings |
| Closed Crankcase Ventilation | 125\% Rotor Balancing |
| Jacket Water Pump | 3-Phase Voltage Sensing |
| Thermostats | $\pm 0.25 \%$ Voltage Regulation |
| Radiator - Remote Mounted | 100\% of Rated Load - One Step |
| Electric Starting Motor-24V | 5\% Maximum Total Harmonic Distortion |
| Governor - Electronic Isochronous |  |
| Base - Heavy Duty Construction |  |
| SAE Flywheel \& Bell Housing | // Digital Control Panel(s) |
| Charging Alternator-24V |  |
| Battery Rack \& Cables | Digital Metering |
| Flexible Fuel Connectors | Engine Parameters |
| Flexible Exhaust Connection | Generator Protection Functions |
| EPA Certified Engine | Engine Protection |
| 60 Hz | CAN Bus ECU Communications |
|  | Windows ${ }^{\oplus}$-Based Software |
|  | Multilingual Capability |
| // Generator | 16 Programmable Contact Inputs |
|  | Up to 11 Contact Outputs |
| NEMA MG 1, IEEE and ANSI standards compliance for temperature rise | UL Recognized, CSA Certified, CE Approved |
| and motor starting | Event Recording |
| Sustained short circuit current of up to 300\% of the rated current for | IP 54 Front Panel Rating with Integrated Gasket |
| up to 10 seconds | NFPA 110 Compatible |
| Self-Ventilated |  |
| Superior Voltage Waveform |  |
| Digital, Solid State, Volts-per-Hertz Regulator |  |
| No Load to Full Load Regulation |  |

[^0]APPLICATION DATA

$\mathrm{N} / \mathrm{A}=$ Not applicable to this system

## WEIGHTS AND DIMENSIONS




Drawing above for illustration purposes only, based on standard open power 480 volt generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.

| System | Dimensions $(\mathrm{L} \times \mathrm{W} \times \mathrm{H})$ | Weight (wet/no fuel) |
| :--- | :--- | :--- |
| Power Module - Prime | $12,192 \times 2,439 \times 2,896 \mathrm{~mm}(480 \times 96 \times 114 \mathrm{in})$ | $29,120 \mathrm{~kg}(64,200 \mathrm{lb})$ |

Weights and dimensions are based on open power units and are estimates only. Consult the factory for accurate weights and dimensions for your specific generator set.
SOUND DATA

## Unit Type

Power Module - Prime dB(A)

## Full Load

C/F

Sound data is provided at $7 \mathrm{~m}(23 \mathrm{ft})$. Generator set tested in accordance with ISO $8528-10$ and with infinite exhaust.

## EMISSIONS DATA

| $\mathrm{NO}_{\boldsymbol{x}}+$ NMHC | CO | PM |
| :--- | :--- | :--- |
| 5.158 | 0.0425 | 0.0238 |

## All units are in g/hp-hr and at 100\% load.

Emission levels of the engine may vary as a function of ambient temperature, barometric pressure, humidity, fuel type and quality, installation parameters, measuring instrumentation, etc. The data provided are laboratory results from one engine representing this rating. The data was obtained under controlled environmental conditions with calibrated instrumentation traceable to the United States National Bureau of Standards and in compliance with US EPA regulations found within 40 CFR Part 89. The weighted cycle value (not shown) from each engine is guaranteed to be below the US EPA Standards at the US EPA defined conditions.

## RATING DEFINITIONS AND CONDITIONS

// Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10\% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271.
// Deration Factor:
Altitude: Consult your local MTU Onsite Energy Power Generation Distributor for altitude derations.
Temperature: Consult your local MTU Onsite Energy Power Generation Distributor for temperature derations.

Materials and specifications subject to change without notice.
C/F = Consult Factory/MTU Onsite Energy Distributor

## MTU Onsite Energy

A Rolls-Royce Power Systems Brand


[^0]:    * Represents standard product only. Consult Factory/MTU Onsite Energy Distributor for additional configurations.

