



Diesel Product Line

208-600 Volt

TD1500-01

60 Hz / 1800 RPM

1500 kWe / 1350 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	CF	CF	742RSL4050	743RSS4290
Connection	4 LEAD WYE	4 LEAD DELTA	4 LEAD WYE	4 LEAD WYE
Standby				
kWe	1500	1500	1500	1500
AMPS	5211	4516	2258	1806
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	1350	1350	1350	1350
AMPS	4690	4064	2032	1626
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

Standard Equipment

- | | | |
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| <p>Engine</p> <ul style="list-style-type: none"> ▶ 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 | <p>Generator</p> <ul style="list-style-type: none"> ▶ Brushless Single Bearing ▶ Automatic Voltage Regulator ▶ ± .25% Voltage Regulation ▶ 4 Pole, Rotating Field ▶ 130°C Standby Temperature Rise ▶ 105°C Standby Temperature Rise ▶ 100% of Rated Load - One Step ▶ 5% Maximum Harmonic Content ▶ NEMA MG 1, IEEE and ANSI standards compliance for temperature rise | <p>Additional</p> <ul style="list-style-type: none"> ▶ Microprocessor Based Digital Control ▶ Base - Structural Steel ▶ Main Line Circuit Breaker Mounted & Wired (480V & 600V Only) ▶ Critical Grade Silencer (Loose) ▶ Flexible Exhaust Connectors ▶ Battery Charger 24V 5 Amp ▶ Jacket Water Heater 20°F ▶ 2-6000W 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 |
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Diesel Product Line

1500 kWe / 1350 kWe



POWERDAK
POWER PRODUCTS, LLC

Application Data

Engine

Manufacturer:	MTU	Displacement - Cu. In. (lit):	3491 (57.2)
Model:	12V4000G43	Bore - in. (cm) x Stroke - in. (cm):	6.69 (17.0) x 8.27 (21.0)
Type:	4-Cycle	Compression Ratio:	16.4:1
Aspiration:	Turbo Charged, Intercooled	Rated RPM:	1800
Cylinder Arrangement:	12 Cylinder Vee	Max HP Stby (kWm):	2,328 (1,737)

Exhaust System

	Standby	Prime
Gas Temp. (Stack): °F (°C)	815 (435)	806 (430)
Gas Volume at Stack Temp: CFM (m ³ /min)	12,085 (342)	11,661 (330)
Maximum Allowable Exhaust Restriction: in. H ₂ O (kPa)	34.1 (8.53)	34.1 (8.53)

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)	0.5 (0.12)	0.5 (0.12)
Jacket Water Pump Flow Rate: Gpm (lit/min)	295 (1,117)	295 (1,117)
Intercooler Water Pump Flow Rate: Gpm (lit/min)	154 (583)	154 (583)
Heat Rejection to Jacket Coolant: BTUM (kW)	36,571 (640)	32,000 (560)
Heat Rejection to Intercooler: BTUM (kW)	25,143 (440)	21,143 (370)
Heat Radiated to Ambient: BTUM (kW)	9,605 (168)	8,645 (151)

Air Requirements

Aspirating: CFM (m ³ /min)	5,088 (144)	4,664 (132)
Air Flow Required for Rad. Cooled Unit: CFM (m ³ /min)	79,827 (2,259)	79,827 (2,259)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m ³ /min)	Consult Factory For Remote Cooled Applications	

Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	111 (421)	95.8 (363)
At 75% of Power Rating: gal/hr (lit/hr)	85.4 (323)	74.7 (283)
At 50% of Power Rating: gal/hr (lit/hr)	59.6 (226)	52.4 (198)

Fluids Capacity

Total Oil System: gal (lit)	68.7 (260)	68.7 (260)
Engine Jacket Water Capacity: gal (lit)	42.3 (160)	42.3 (160)
Intercooler Water Cap: gal (lit)	10.6 (42.3)	10.6 (42.3)
System Coolant Capacity: gal (lit)	155 (587)	155 (587)

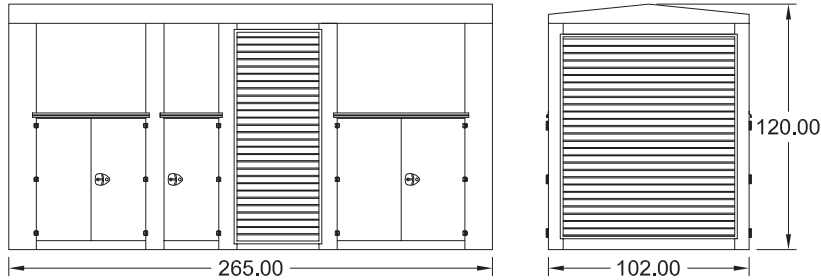
Deration Factors

Rated power available at ambient temperatures to 40°C. Derate 3% per 1640 ft (500 m) above 1640 ft (500 m). Consult factory for site conditions above these parameters.

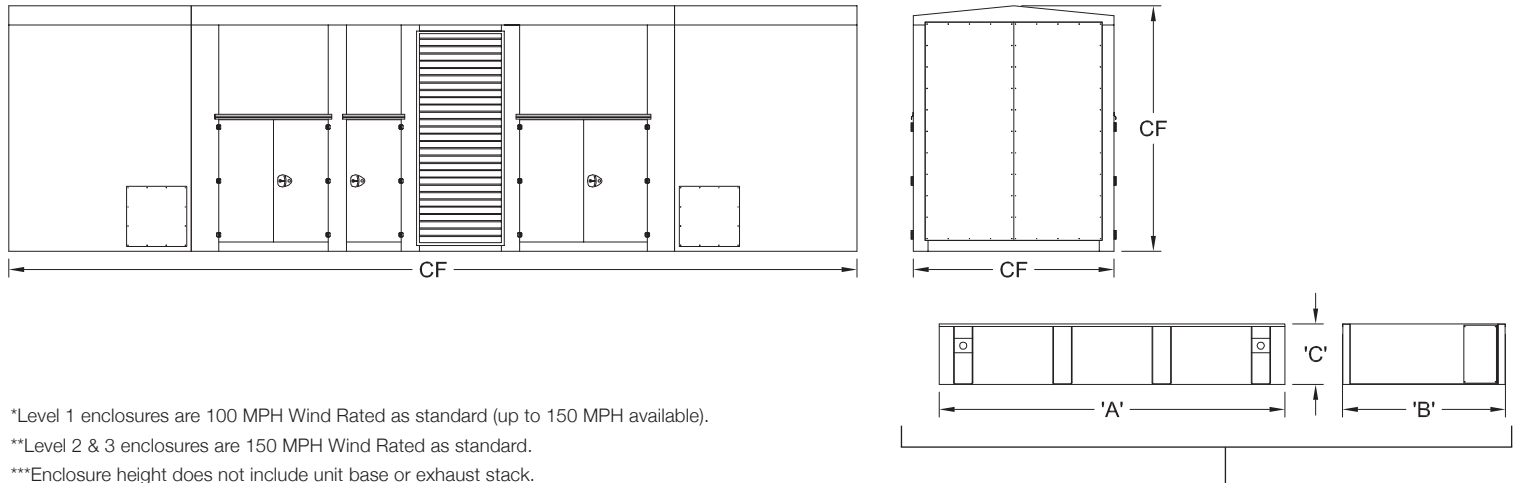
TD1500-01

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).

**Level 2 & 3 enclosures are 150 MPH Wind Rated as standard.

***Enclosure height does not include unit base or exhaust stack.

Double Wall UL 142 Listed Fuel Tanks

	12 Hour (1350 Gallon)			24 Hour (2700 Gallon)			48 Hour (5400 Gallon)		
	A	B	C	A	B	C	A	B	C
OPU	265.00	110.00	16.00	265.00	110.00	30.00	408.00	110.00	30.00
Level 1	265.00	110.00	16.00	265.00	110.00	30.00	408.00	110.00	30.00
Level 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Level 3	CF	CF	CF	CF	CF	CF	CF	CF	CF

*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.

***Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:

American Owned



American Made

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