



## Diesel Product Line

208-600 Volt

VD250-02FT4

60 Hz / 1800 RPM

250 kWe / 250 kWe

Standby / Prime

## Ratings

	240V	208V	240V	480V	600V
<b>Phase</b>	1	3	3	3	3
<b>PF</b>	1.0	0.8	0.8	0.8	0.8
<b>Hz</b>	60	60	60	60	60
<b>Generator Model</b>	572RSL4027	432CSL6210	432CSL6210	432CSL6210	432PSL6246
<b>Connection</b>	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
<b>Standby</b>					
<b>kWe</b>	250	250	250	250	250
<b>AMPS</b>	1042	868	753	376	301
<b>Temp Rise</b>	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
<b>Prime</b>					
<b>kWe</b>	250	250	250	250	250
<b>AMPS</b>	1042	868	753	376	301
<b>Temp Rise</b>	105°C / 40°C	105°C / 40°C	105°C / 40°C	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 (55°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 4 Final</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>▶ ± 1% Voltage Regulation</li> <li>▶ 4 Pole, Rotating Field</li> <li>▶ 105°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 - Formed Steel</li> <li>▶ Main Line Circuit Breaker Mounted &amp; Wired</li> <li>▶ SCR Catalyst / Silencer Mounted</li> <li>▶ Battery Charger 24V 5 Amp</li> <li>▶ Jacket Water Heater -20°F 4000W 240V w/Isolation Valves</li> <li>▶ Vibration Isolation Mounts</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

250 kWe / 250 kWe



**POWERDAK**  
POWER PRODUCTS, LLC

## Application Data

### Engine

Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1371VE	Bore - in. (cm) x Stroke - in. (cm):	5.16 (13.1) x 6.22 (15.8)
Type:	4-Cycle	Compression Ratio:	17.8:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	388 (285)

### Exhaust System

	Standby	Prime
Gas Temp. (Stack): °F (°C)	725 (385)	725 (385)
Gas Volume at Stack Temp: CFM (m <sup>3</sup> /min)	1,872 (53.0)	1,872 (53.0)
Maximum Allowable Exhaust Restriction (Post SCR Cat.): in. H <sub>2</sub> O (kPa)	32.0 (8.00)	32.0 (8.00)

### Cooling System

Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	90.6 (343)	90.6 (343)
Heat Rejection to Coolant: BTUM (kW)	7,677 (103)	7,677 (103)
Heat Rejection to CAC: BTUM (kW)	3,526 (62.0)	3,526 (62.0)
Heat Radiated to Ambient: BTUM (kW)	2,312 (40.5)	2,312 (40.5)

### Air Requirements

Aspirating: CFM (m <sup>3</sup> /min)	918 (26.0)	918 (26.0)
Air Flow Required for Rad. Cooled Unit: CFM (m <sup>3</sup> /min)	14,196 (402)	14,196 (402)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m <sup>3</sup> /min)	Consult Factory For Remote Cooled Applications	

### Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	18.7 (70.7)	17.3 (65.3)
At 75% of Power Rating: gal/hr (lit/hr)	14.3 (54.0)	13.2 (49.8)
At 50% of Power Rating: gal/hr (lit/hr)	9.71 (36.8)	9.19 (34.8)
DEF Consumption (% of fuel consumption)	± 6.00%	± 6.00%

### Fluids Capacity

Total Oil System: gal (lit)	9.50 (36.0)	9.50 (36.0)
Engine Jacket Water Capacity: gal (lit)	5.28 (20.0)	5.28 (20.0)
System Coolant Capacity: gal (lit)	6.34 (24.0)	6.34 (24.0)

#### Deration Factors

Rated Power is available up to 4,921 Ft (1500m) at ambient temperatures to 122°F (50°C) standby and prime.  
Consult factory for site conditions above these parameters.



