

208-480 Volt

VD150-02FT4MP 60 Hz / 1800 RPM

150 kWe / 150 kWe Standby / Prime

Ratings

| | 240V | 208V | 240V | 480 V | Multi-Voltage |
|-----------------|-----------------|--------------|---------------|--------------|----------------------|
| Phase | 1 | 3 | 3 | 3 | 3 / 1 |
| PF | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 / 1.0 |
| Hz | 60 | 60 | 60 | 60 | 60 |
| Generator Model | 431CSL6206 | 431CSL6204 | 431CSL6204 | 431CSL6204 | 431CSL6206 |
| Connection | 12 LEAD ZIG-ZAG | 12 LEAD WYE | 12 LEAD DELTA | 12 LEAD WYE | 12 LEAD CONFIGURABLE |
| Standby | | | | | |
| kWe | 150 | 150 | 150 | 150 | 150 |
| AMPS | 625 | 521 | 452 | 226 | 625/521/452/226 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |
| Prime | | | | | |
| kWe | 150 | 150 | 150 | 150 | 150 |
| AMPS | 625 | 521 | 452 | 226 | 625/521/452/226 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |

Standard Equipment

Engine

- ▶ Radiator Cooled Unit Mounted (55°C)
- ▶ Blower Fan & Fan Drive
- ▶ Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/Valve
- ▶ Governor Electronic Isochronous
- ▶ 24V Battery System & Cables
- ► Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connector
- ▶ EPA Certified Tier 4 Final

Generator

- ▶ Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± .25% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 105°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

- ▶ Single Source Supplier
- ▶ Microprocessor Based Digital Control
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base Formed Steel
- ▶ Level 3 Enclosure
- ▶ Trailer with Integrated 250 Gallon Fuel Tank
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ SCR Catalyst / Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ▶ Jacket Water Heater -20°F 2500W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Color White

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150 kWe / 150 kWe



Application Data

| Engine | | | |
|-----------------------|--------------------|--------------------------------------|--------------------------|
| Manufacturer: | Volvo Penta | Displacement - Cu. In. (lit): | 470 (7.70) |
| Model: | TAD871VE | Bore - in. (cm) x Stroke - in. (cm): | 4.33(11.0) x 5.31 (13.5) |
| Туре: | 4-Cycle | Compression Ratio: | 17.5:1 |
| Aspiration: | Turbo Charged, CAC | Rated RPM: | 1800 |
| Cylinder Arrangement: | 6 Cylinder Inline | Max HP Stby (kWm): | 252 (185) |

| Exhaust System | Standby | Prime |
|---|--|--------------|
| Gas Temp. (Stack): °F (°C) | 709 (376) | 709 (376) |
| Gas Volume at Stack Temp: CFM (m³/min) | 886 (25.1) | 886 (25.1) |
| Maximum Allowable Exhaust Restriction (Post SCR Cat.): in. H ₂ 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 ₂ O (kPa) | 0.50 (0.12) | 0.50 (0.12) |
| Water Pump Flow Rate: GPM (lit/min) | 123 (465) | 123 (465) |
| Heat Rejection to Coolant: BTUM (kW) | 7,285 (128) | 7,285 (128) |
| Heat Rejection to CAC: BTUM (kW) | 1,666 (29.3) | 1,666 (29.3) |
| Heat Radiated to Ambient: BTUM (kW) | 2,135 (37.4) | 2,135 (37.4) |
| Air Requirements | | |
| Aspirating: CFM (m³/min) | 445 (12.6) | 445 (12.6) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 16,961 (480) | 16,961 (480) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | Consult Factory For Remote Cooled Applications | |
| Fuel Consumption | | |
| At 100% of Power Rating: gal/hr (lit/hr) | 11.5 (43.5) | 11.5 (43.5) |
| At 75% of Power Rating: gal/hr (lit/hr) | 9.62 (36.4) | 9.62 (36.4) |
| At 50% of Power Rating: gal/hr (lit/hr) | 6.81 (25.8) | 6.81 (25.8) |
| DEF Consumption (% of fuel consumption) | ± 6.00% | ± 6.00% |
| Fluids Capacity | | |
| Total Oil System: gal (lit) | 7.13 (27.0) | 7.13 (27.0) |
| Engine Jacket Water Capacity: gal (lit) | 4.50 (17.0) | 4.50 (17.0) |
| System Coolant Capacity: gal (lit) | 11.6 (43.9) | 11.6 (43.9) |
| DEF Tank Capacity: gal (lit) | 18.5 (70.0) | 18.5 (70.0) |
| | | |

<u>Deration Factors</u>

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.

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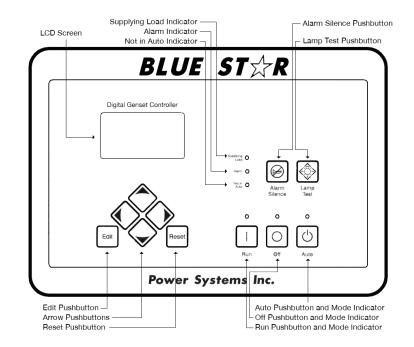
150 kWe / 150 kWe



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 Level 1 Compatible



Convenience Panel

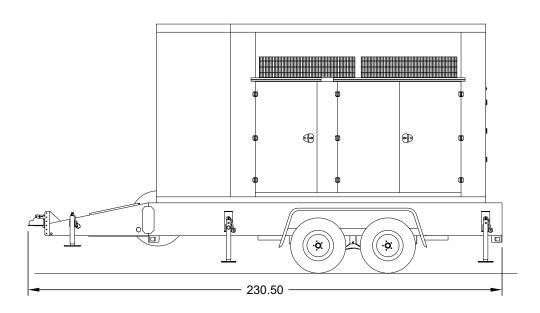
- ▶ 2-50A 125/250VAC 3P4W Twist Lock Non-Nema CS6369
- ▶ 1-30A 125/250VAC 3P4W Twist Lock Nema L14-30R
- ▶ 2-20A 120VAC Duplex GFCI Nema 5-20R
- ▶ Thumb Screw Terminals for 2-Wire Remote Start
- ▶ 20A 240VAC Male Receptacle for Jacket Water Heater Shore Power Connection
- ▶ 15A 120VAC Male Receptacle for Battery Charger Shore Power Connection
- ▶ 9-400A Rated Female Cam Style Locking Receptacles for Load Connection

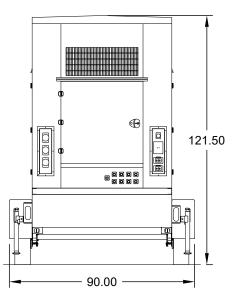
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150 kWe / 150 kWe



Dimensions





| | No Load | Full Load |
|------------|---------|-----------|
| Sound Data | 67 dBA | 69 dBA |

Approximate Ship Weight: 10,300 lbs. Approximate Wet Weight: 12,100 lbs.

Weights based on standard trailer package. Additional options may increase weight.

Sound data measured at 23 feet (7 meters) in accordance with ISO 8528-10.

All specification sheet dimensions are represented in inches.

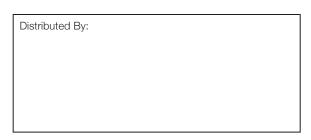
All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions. Materials and specifications subject to change without notice.



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