

208-480 Volt

VD350-02FT4MP

60 Hz / 1800 RPM

350 kWe / 350 kWe

Standby / Prime

Ratings

	208V	240V	480V	Multi-Voltage
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	433CSL6220	433CSL6220	433CSL6220	433CSL6220
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD CONFIGURABLE
Standby				
kWe	350	350	350	350
AMPS	1216	1054	527	1216/1054/527
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime				
kWe	350	350	350	350
AMPS	1216	1054	527	1216/1054/527
Temp Rise	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 Channel Steel
- ▶ Level 3 Enclosure
- ► Trailer with Integrated Fuel Tank
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ SCR Catalyst / Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 5000W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Color White

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350 kWe / 350 kWe



Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.1)
Model:	TAD1670VE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.50 (16.5)
Type:	4-Cycle	Compression Ratio:	17.0:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	551 (405)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	869 (465)	869 (465)
Gas Volume at Stack Temp: CFM (m³/min)	2,861 (81.0)	2,861 (81.0)
Maximum Allowable Exhaust Restriction (Post SCR Cat.): in. H ₂ O (kPa)	16.0 (4.00)	16.0 (4.00)
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)	108 (409)	108 (409)
Heat Rejection to Coolant: BTUM (kW)	9,668 (169)	9,668 (169)
Heat Rejection to CAC: BTUM (kW)	4,891 (85.6)	4,891 (85.6)
Heat Radiated to Ambient: BTUM (kW)	2,988 (52.3)	2,988 (52.3)
Air Requirements		
Aspirating: CFM (m³/min)	1,155 (32.7)	1,155 (32.7)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	17,340 (491)	17,340 (491)
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)	25.5 (96.5)	23.1 (87.4)
At 75% of Power Rating: gal/hr (lit/hr)	19.3 (73.1)	17.7 (67.0)
At 50% of Power Rating: gal/hr (lit/hr)	13.2 (50.0)	12.3 (46.6)
DEF Consumption (% of fuel consumption)	± 6.00%	± 6.00%
Fluids Capacity		
Total Oil System: gal (lit)	12.7 (48.1)	12.7 (48.1)
Engine Jacket Water Capacity: gal (lit)	8.70 (32.9)	8.70 (32.9)
System Coolant Capacity: gal (lit)	15.9 (60.2)	15.9 (60.2)
DEF Tank Capacity: gal (lit)	18.5 (70.0)	18.5 (70.0)

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.

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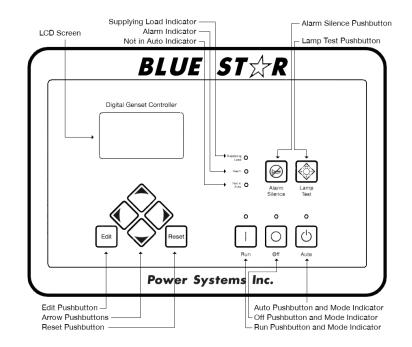
350 kWe / 350 kWe



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

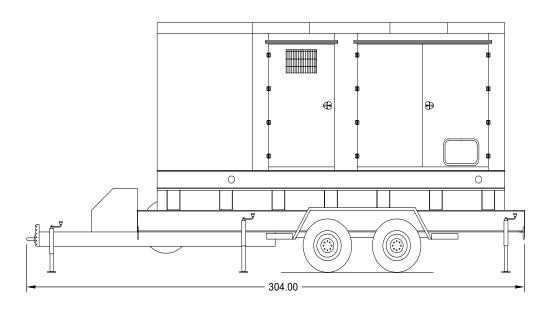
- ▶ 2-50A 125/250VAC 3P4W Twist Lock Non-Nema CS6369
- ▶ 1-30A 125/250VAC 3P4W Twist Lock Nema L14-30R
- ▶ 2-20A 120VAC Duplex GFCI Nema 5-20R
- ▶ Thumb Screw Terminals for 2-Wire Remote Start
- ▶ 30A 240VAC Male Receptacle for Jacket Water Heater Shore Power Connection
- ▶ 15A 120VAC Male Receptacle for Battery Charger Shore Power Connection
- ▶ 13-400A Rated Female Cam Style Locking Receptacles for Load Connection

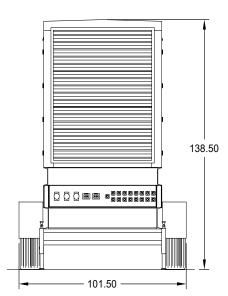
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Dimensions





All specification sheet dimensions are represented in inches.

Distributed By:

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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