

BLUE STAR

Power Systems Inc.

Diesel Product Line

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 <ul style="list-style-type: none"> ▶ 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 <ul style="list-style-type: none"> ▶ 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 <ul style="list-style-type: none"> ▶ Single Source Supplier ▶ Microprocessor Based Digital Control ▶ Control Panel Mounted in NEMA 12 Enclosure ▶ Base - Channel Steel ▶ Level 3 Enclosure ▶ Trailer with Integrated 500 Gallon 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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Diesel Product Line

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. H₂O (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. H₂O (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)

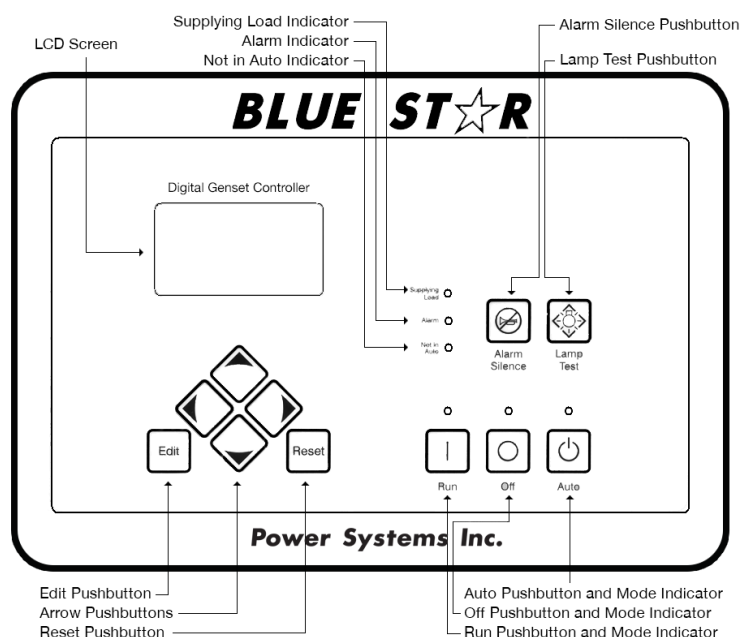
Deration Factors

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.

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

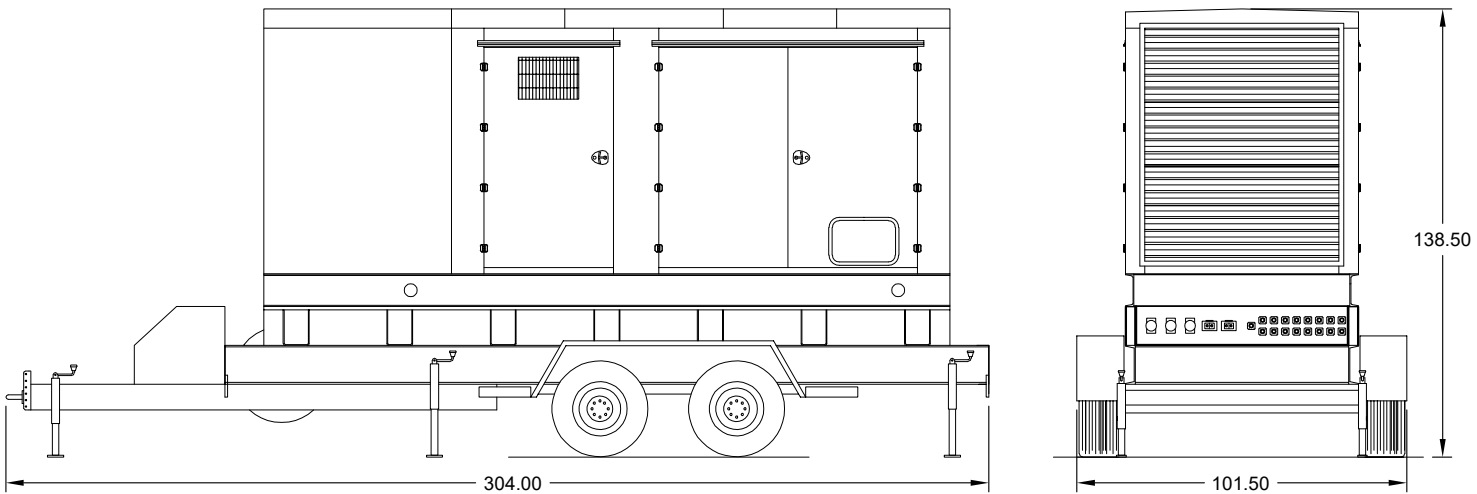
- ▶ 2-50A 125/250VAC 3P4W Twist Lock Non-Nema CS6369
- ▶ 1-30A 125/250VAC 3P4W Twist Lock Nema L14-30R
- ▶ 2-20A 120VAC Duplex GFCI Nema 5-20R
- ▶ Thumb Screw Terminals for 2-Wire Remote Start
- ▶ 30A 240VAC Male Receptacle for Jacket Water Heater Shore Power Connection
- ▶ 15A 120VAC Male Receptacle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

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350 kWe / 350 kWe



Dimensions



	No Load	Full Load
Sound Data	71 dBA	73 dBA

Approximate Ship Weight: 18,350 lbs.
Approximate Wet Weight: 21,900 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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