

BLUE STAR

Power Systems

Diesel Product Line

208-480 Volt

VD100-04FT4MP

60 Hz / 1800 RPM

100 kWe / 100 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	Multi-Voltage
Phase	1	3	3	3	3 / 1
PF	1	0.8	0.8	0.8	0.8 / 1.0
Hz	60	60	60	60	60
Generator Model	UCI274G	UCI274E	UCI274E	UCI274D	UCI274G
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD CONFIGURABLE
Standby kWe	100	100	100	100	100
AMPS	417	347	301	151	417/347/301/151
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime kWe	100	100	100	100	100
AMPS	417	347	301	151	417/347/301/151
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

Standard Equipment

- | | | |
|---|--|---|
| <p>Engine</p> <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) - SCR/DPF/DOC Catalyst / Silencer Mounted - Flexible Fuel Connector - EPA Certified Tier 4 Final / EU Stage 5 Certified | <p>Generator</p> <ul style="list-style-type: none"> - Brushless Single Bearing - Automatic Voltage Regulator - ± 1% 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 | <p>Additional</p> <ul style="list-style-type: none"> - Single Source Supplier - NFPA 110 / CSA C282 Compliant - Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure - Base - Formed Steel - Level 3 Sound Attenuated Enclosure - Trailer with Integrated 250 Gallon Fuel Tank - Main Line Circuit Breaker Mounted & Wired - Battery Charger 24V 5 Amp - Jacket Water Heater -20°F 1500W 120V w/Isolation Valves - Vibration Isolation Mounts - 2 Year / 2000 Hour Standby Warranty - 1 Year / 1500 Hour Prime Warranty - Standard Color - White |
|---|--|---|

Application Data

Engine

Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	313 (5.13)
Model:	TAD581VE	Bore - in. (cm) x Stroke - in. (cm):	4.33 (11.0) x 5.31 (13.5)
Type:	4-Cycle	Compression Ratio:	17.2:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	4 Cylinder Inline	Max HP Stby (kWm):	175 (131)

Exhaust System

	Standby	Prime
Gas Temp. (Stack): °F (°C)	831 (444)	831 (444)
Gas Volume at Stack Temp: CFM (m ³ /min)	742 (21.0)	742 (21.0)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H ₂ O (kPa)	20.0 (5.00)	20.0 (5.00)

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)	67.4 (255)	67.4 (255)
Heat Rejection to Coolant: BTUM (kW)	3,731 (65.3)	3,731 (65.3)
Heat Rejection to CAC: BTUM (kW)	997 (17.4)	997 (17.4)
Heat Radiated to Ambient: BTUM (kW)	2,095 (36.7)	2,095 (36.7)

Air Requirements

Aspirating: CFM (m ³ /min)	325 (9.20)	325 (9.20)
Air Flow Required for Rad. Cooled Unit: CFM (m ³ /min)	11,237 (318)	11,237 (318)
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)	6.99 (26.5)	6.99 (26.5)
At 75% of Power Rating: gal/hr (lit/hr)	5.51 (20.9)	5.51 (20.9)
At 50% of Power Rating: gal/hr (lit/hr)	4.05 (15.3)	4.05 (15.3)
DEF Consumption (% of fuel consumption)	± 5.10%	± 5.10%

Fluids Capacity

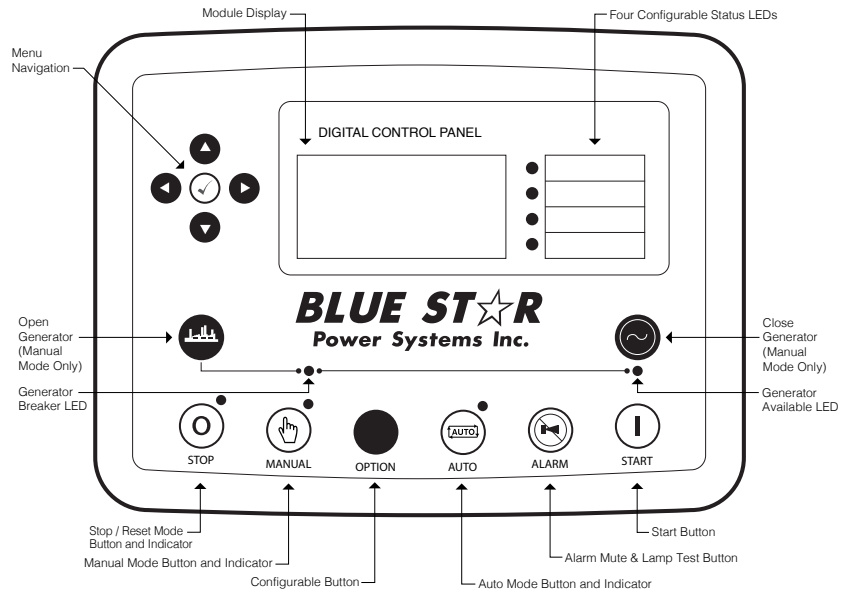
Total Oil System: gal (lit)	4.23 (16.0)	4.23 (16.0)
Engine Jacket Water Capacity: gal (lit)	3.40 (13.0)	3.40 (13.0)
System Coolant Capacity: gal (lit)	12.4 (46.9)	12.4 (46.9)
DEF Tank Capacity: gal (lit)	18.5 (70.0)	18.5 (70.0)

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

DCP7310 Control Panel

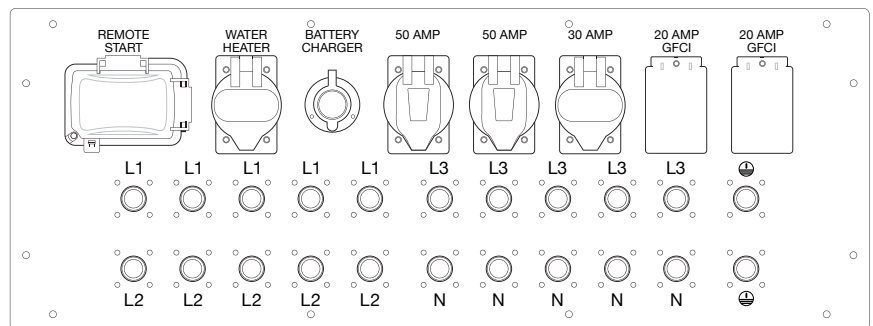
Standard Features

- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- NFPA 110 Level 1 Compatible



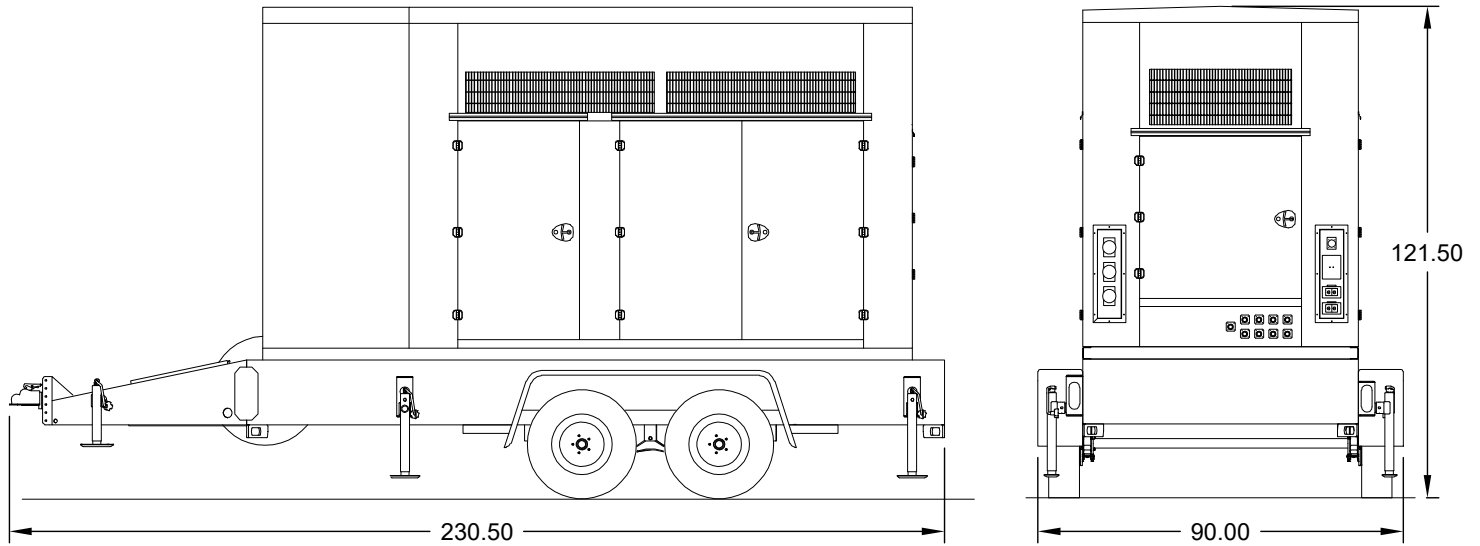
Convenience Panel

- 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
- 15A 120VAC Male Receptacle for Jacket Water Heater and Battery Charger Shore Power Connection
- 5-400A Rated Female Cam Style Locking Receptacles for Load Connection



* Drawing and configuration may vary from illustration. All drawings and dimensions subject to change without notice.

Dimensions



- Approximate Ship Weight: 10,500 lbs.
- Approximate Wet Weight: 12,250 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.

	No Load	Full Load
Sound Data	65 dBA	67 dBA

Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.

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