

BLUE STAR

Power Systems

Diesel Product Line

208-480 Volt

VD250-04FT4MP

60 Hz / 1800 RPM

250 kWe / 250 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	Multi-Voltage
Phase	1	3	3	3	3
PF	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	S4L1D-G41	S4L1D-D41	S4L1D-D41	S4L1D-D41	S4L1D-D41
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD CONFIGURABLE
Standby kWe	250	250	250	250	250
AMPS	1042	868	753	376	868/753/376
Temp Rise	125°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime kWe	250	250	250	250	250
AMPS	1042	868	753	376	868/753/376
Temp Rise	125°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/125°C Standby Temperature Rise - 105°C/125°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 350 Gallon Fuel Tank - Main Line Circuit Breaker Mounted & Wired - Battery Charger 24V 5 Amp - Jacket Water Heater -20°F 4000W 240V 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):	780 (12.8)
Model:	TAD1381VE	Bore - in. (cm) x Stroke - in. (cm):	5.16 (13.1) x 6.22 (15.8)
Type:	4-Cycle	Compression Ratio:	16.8:1
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)	753 (401)	753 (401)
Gas Volume at Stack Temp: CFM (m³/min)	2,069 (58.6)	2,069 (58.6)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H ₂ O (kPa)	56.0 (14.0)	56.0 (14.0)

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)	100 (379)	100 (379)
Heat Rejection to Coolant: BTUM (kW)	8,527 (149)	8,527 (149)
Heat Rejection to CAC: BTUM (kW)	3,523 (61.7)	3,523 (61.7)
Heat Radiated to Ambient: BTUM (kW)	5,034 (88.1)	5,034 (88.1)

Air Requirements

Aspirating: CFM (m³/min)	913 (25.8)	913 (25.8)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	14,196 (402)	14,196 (402)
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)	17.3 (65.6)	17.3 (65.6)
At 75% of Power Rating: gal/hr (lit/hr)	13.6 (51.4)	13.6 (51.4)
At 50% of Power Rating: gal/hr (lit/hr)	9.8 (37.3)	9.8 (37.3)
DEF Consumption (% of fuel consumption)	± 5.10%	± 5.10%

Fluids Capacity

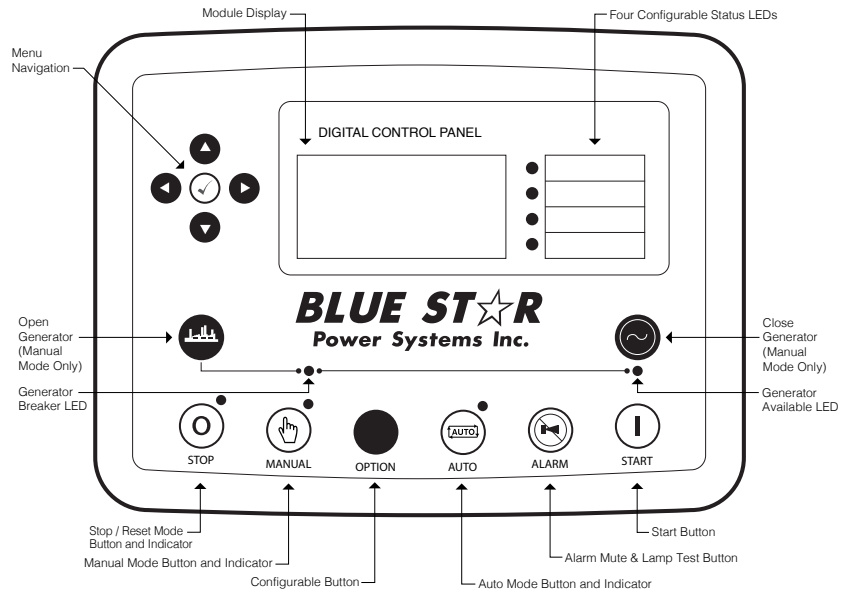
Total Oil System: gal (lit)	9.51 (36.0)	9.51 (36.0)
Engine Jacket Water Capacity: gal (lit)	5.30 (20.1)	5.30 (20.1)
System Coolant Capacity: gal (lit)	11.6 (43.9)	11.6 (43.9)
DEF Tank Capacity: gal (lit)	18.5 (70.0)	18.5 (70.0)

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

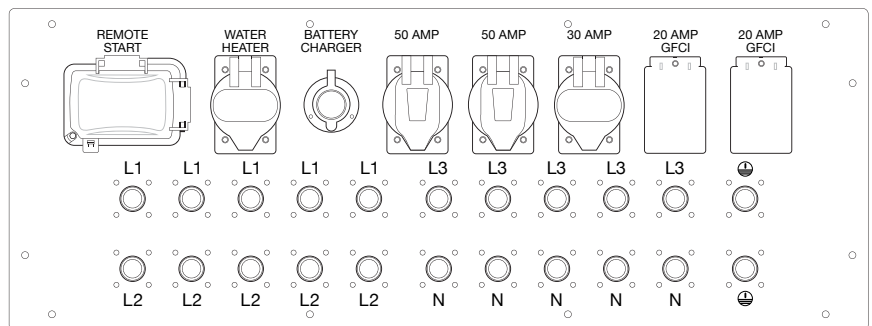
Standard Features

- 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



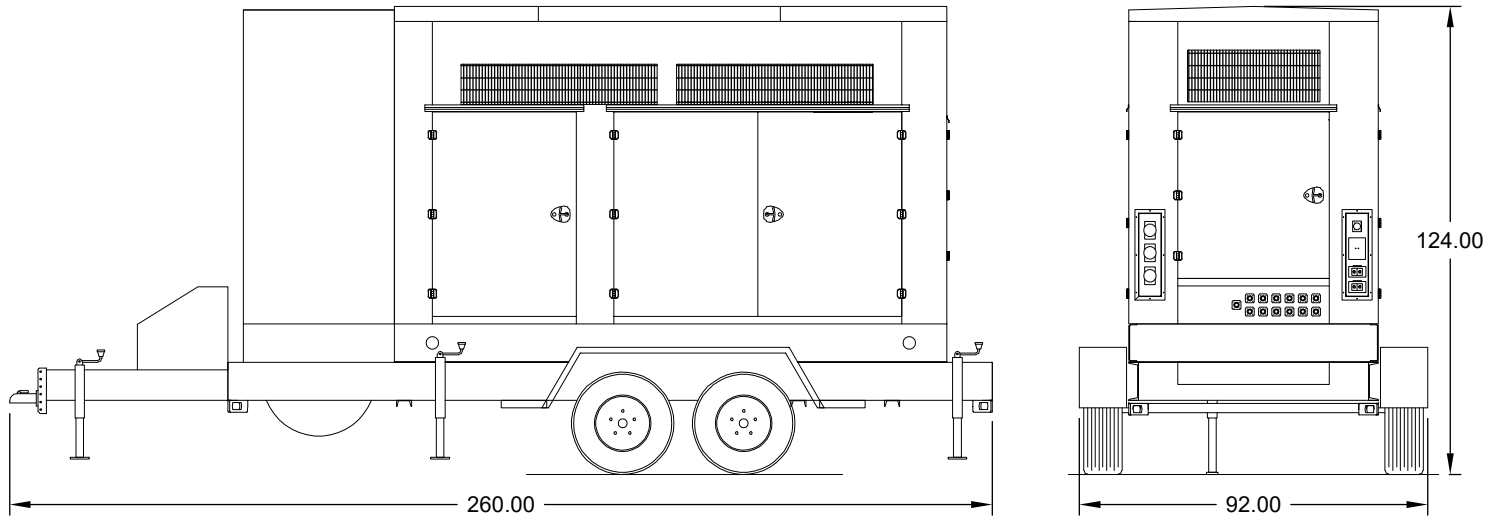
Convenience Panel

- 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
- 20A 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



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

Dimensions



- Approximate Ship Weight: 15,400 lbs.
- Approximate Wet Weight: 17,900 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.

Sound Data

No Load	Full Load
69 dBA	71 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.

Blue Star Power Systems

2250 Carlson Drive
North Mankato, Minnesota 56003
Phone + 1 507 345 1776
bluestarps.com
quote.bluestarps.com
sales@bluestarps.com

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