BLUE STAR
Power Systems

Diesel Product Line

208-600 Volt

VD125-04FT4

60 Hz / 1800 RPM

125 kWe / 125 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	UCI274H	UCI274F	UCI274F	UCI274E	UCI274E
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby kWe	125	125	125	125	125
AMPS	521	434	376	188	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	125	125	125	125	125
AMPS	521	434	376	188	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

Engine

- Radiator Cooled Unit Mounted (55˚C)
- Radiator Duct Flange (OPU Only)
- 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

Generator

- 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

Additional

- Single Source Supplier
- UL 2200 & cUL Listed
- CSA Certified
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- 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 Colors - White / Gray

Application Data

Engine

Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	313 (5.13)
Model:	TAD582VE	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):	218 (160)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	903 (484)	903 (484)
Gas Volume at Stack Temp: CFM (m³/min)	851 (24.1)	851 (24.1)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H_2O (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_2O (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)	4,618 (80.8)	4,618 (80.8)
Heat Rejection to CAC: BTUM (kW)	1,232 (21.6)	1,232 (21.6)
Heat Radiated to Ambient: BTUM (kW)	2,580 (45.2)	2,580 (45.7)
Air Requirements		
Aspirating: CFM (m³/min)	364 (10.3)	364 (10.3)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	11,237 (318)	11,237 (318)
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)	8.61 (32.6)	8.61 (32.6)
At 75% of Power Rating: gal/hr (lit/hr)	6.58 (24.9)	6.58 (24.9)
At 50% of Power Rating: gal/hr (lit/hr)	4.82 (18.2)	4.82 (18.2)
DEF Consumption (% of fuel consumption)	± 5.90%	± 5.90%
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.

Diesel Product Line

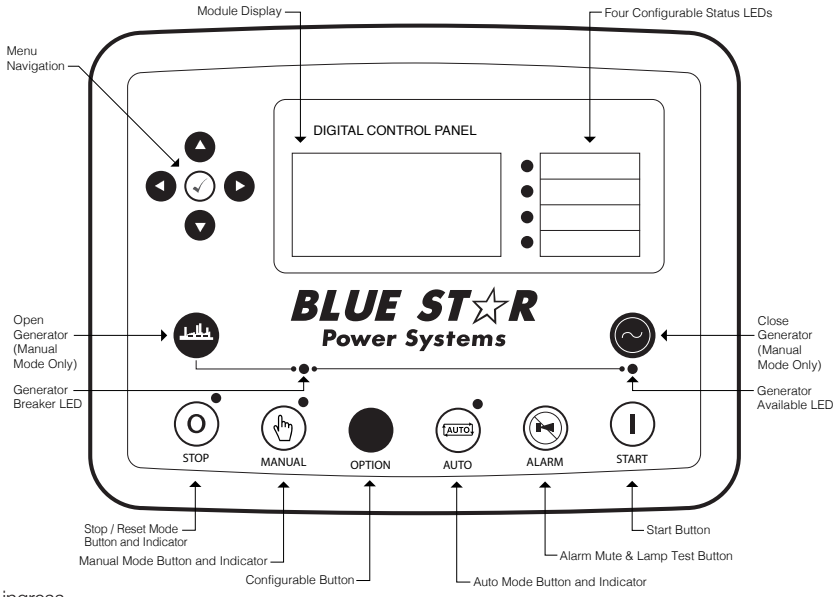
125 kWe / 125 kWe

BLUE STAR Power Systems

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

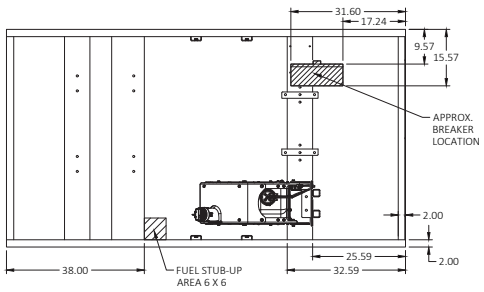


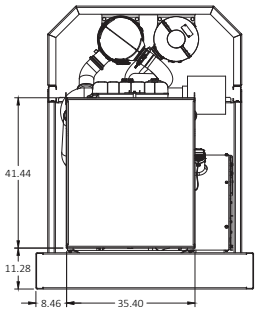
Weights / Dimensions / Sound Data

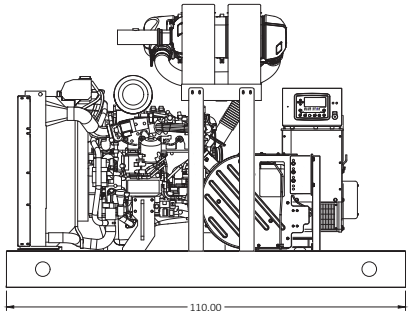
	L x W x H	Weight lbs
OPU	110 x 60 x 78 in	4,250
Level 1	134 x 60 x 82 in	5,250
Level 2	134 x 60 x 82 in	5,300
Level 3	174 x 60 x 82 in	5,575

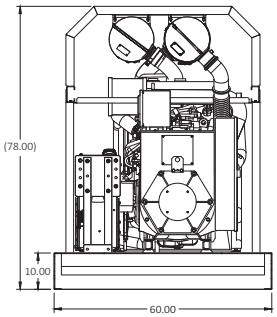
Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load
OPU	78 dBA	81 dBA
Level 1	74 dBA	77 dBA
Level 2	70 dBA	73 dBA
Level 3	66 dBA	68 dBA

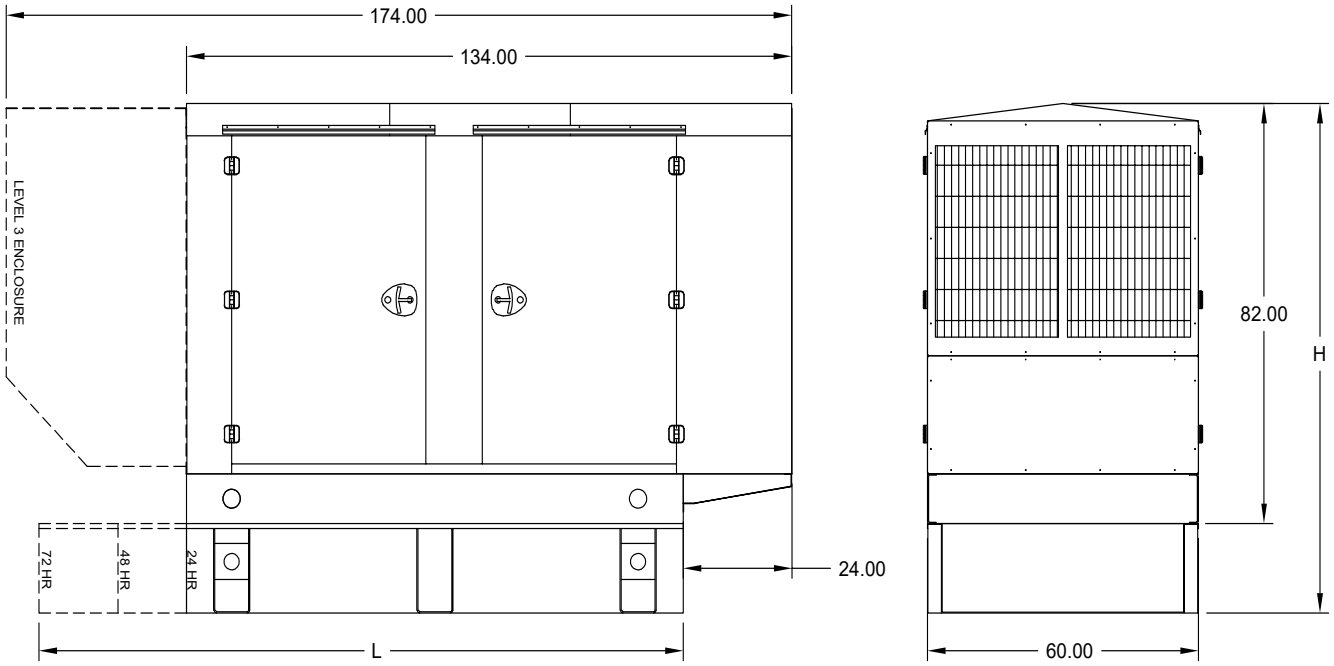








Enclosures & Fuel Tanks



- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

	24 Hour 250 Gallon	48 Hour 500 Gallon	72 Hour 750 Gallon
L	110.00	110.00	120.00
H	96.00	110.00	118.00

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 unit configuration. Any requested 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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