

BLUE STAR

Power Systems

Diesel Product Line

208-600 Volt

VD150-04FT4

60 Hz / 1800 RPM

150 kWe / 150 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	UCDI274J1	UCI274G	UCI274G	UCI274F	UCI274F
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby kWe	150	150	150	150	150
AMPS	625	521	452	226	181
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime kWe	150	150	150	150	150
AMPS	625	521	452	226	181
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) - 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 | <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 - 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 2500W 240V 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):	470 (7.70)
Model:	TAD881VE	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:	6 Cylinder Inline	Max HP Stby (kWm):	252 (185)

Exhaust System

	Standby	Prime
Gas Temp. (Stack): °F (°C)	856 (458)	856 (458)
Gas Volume at Stack Temp: CFM (m³/min)	1,049 (29.7)	1,049 (29.7)
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)	68.2 (258)	68.2 (258)
Heat Rejection to Coolant: BTUM (kW)	5,414 (94.7)	5,414 (94.7)
Heat Rejection to CAC: BTUM (kW)	1,462 (25.6)	1,462 (25.6)
Heat Radiated to Ambient: BTUM (kW)	3,202 (56.0)	3,202 (56.0)

Air Requirements

Aspirating: CFM (m³/min)	487 (13.8)	487 (13.8)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	12,509 (354)	12,509 (354)
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)	10.7 (40.5)	10.7 (40.5)
At 75% of Power Rating: gal/hr (lit/hr)	8.44 (32.0)	8.44 (32.0)
At 50% of Power Rating: gal/hr (lit/hr)	6.03 (22.8)	6.03 (22.8)
DEF Consumption (% of fuel consumption)	± 6.40%	± 6.40%

Fluids Capacity

Total Oil System: gal (lit)	7.13 (27.0)	7.13 (27.0)
Engine Jacket Water Capacity: gal (lit)	4.50 (17.0)	4.50 (17.0)
System Coolant Capacity: gal (lit)	13.5 (51.1)	13.5 (51.1)
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

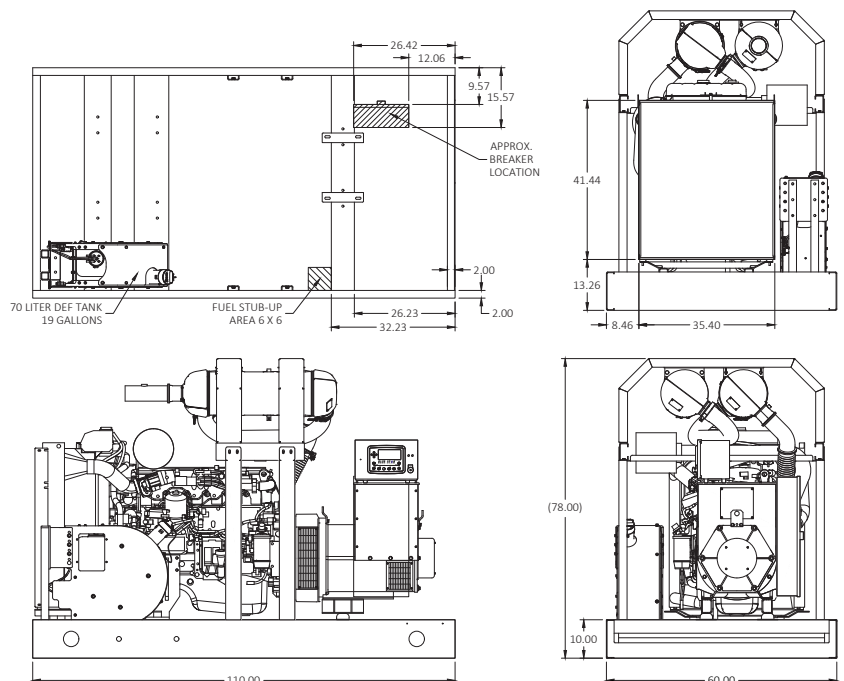
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator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



Weights / Dimensions / Sound Data

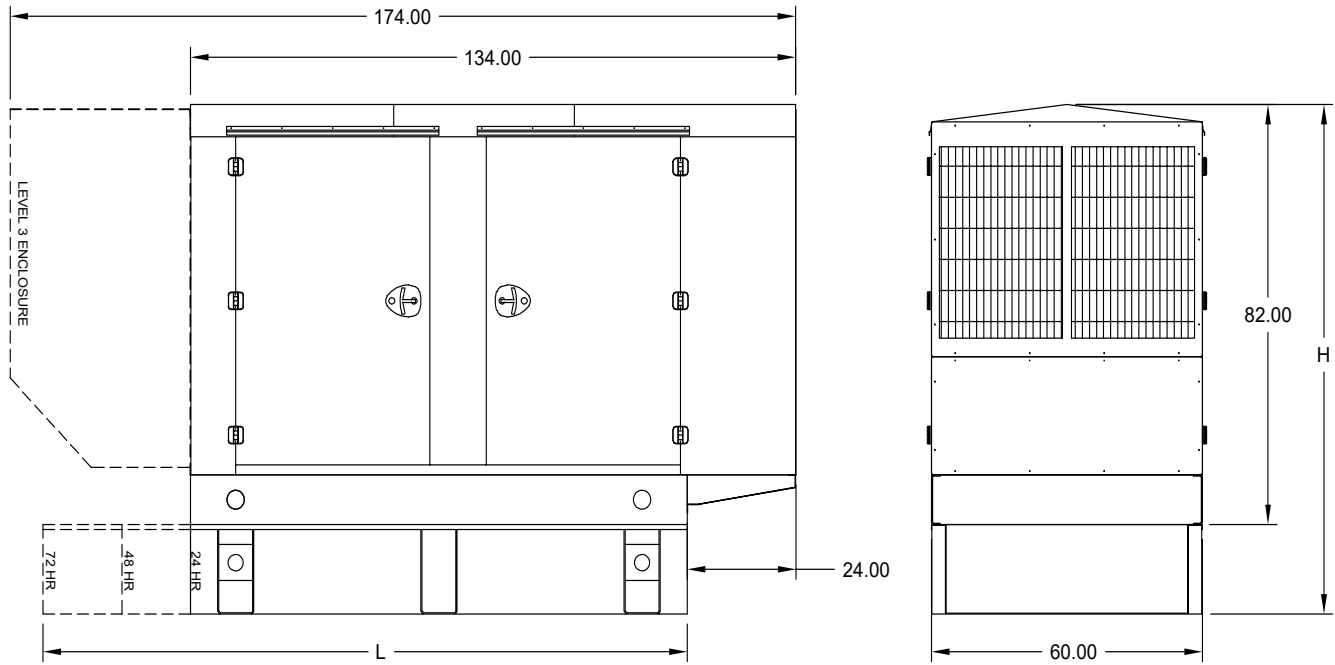
	L x W x H	Weight lbs
OPU	110 x 60 x 78 in	4,900
Level 1	134 x 60 x 82 in	5,900
Level 2	134 x 60 x 82 in	5,950
Level 3	174 x 60 x 82 in	6,225

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



	No Load	Full Load
OPU	79 dBA	82 dBA
Level 1	75 dBA	78 dBA
Level 2	71 dBA	74 dBA
Level 3	67 dBA	69 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 375 Gallon	48 Hour 750 Gallon	72 Hour 1125 Gallon
L	110.00	120.00	168.00
H	104.00	118.00	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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