

Diesel Product Line

208-600 Volt

Standby

60 Hz / 1800 RPM

400 kWe

VD400-01

Ratings

	208V	240V	480V	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	S4L1D-G41	S4L1D-G41	S4L1D-F41	S4L1S-F4
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	400	400	400	400
AMPS	1390	1204	602	482
Temp Rise	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°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)
- Critical Grade Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 3

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- \pm 0.50% Voltage Regulation
- 4 Pole, Rotating Field
- 125°C Standby 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 4000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

400 kWe



Application Data

Engine					
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	780 (12.8)		
Model:	TAD1353GE	Bore - in. (cm) x Stroke - in. (cm):	5.16 (13.1) x 6.22 (15.8)		
Туре:	4-Cycle	Compression Ratio:	18.1:1		
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800		
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	611 (449)		
Exhaust System			Standby		
Gas Temp. (Stack): °F (°C)			923 (495)		
Gas Volume at Stack Temp: CFM (m ³ /m	nin)		2,790 (79.0)		
Maximum Allowable Exhaust Restriction: in. H2O (kPa)			40.0 (10.0)		
Cooling System					
Ambient Capacity of Radiator: °F (°C)			131 (55.0)		
Maximum Allowable Static Pressure on	Rad. Exhaust: in. H2O (kPa)	0.50 (0.12)			
Water Pump Flow Rate: GPM (lit/min)		87.0 (329)			
Heat Rejection to Coolant: BTUM (kW)			10,123 (177)		
Heat Rejection to CAC: BTUM (kW)			5,346 (94.0)		
Heat Radiated to Ambient: BTUM (kW) 8,0			8,076 (141)		
Air Requirements					
Aspirating: CFM (m³/min)			1,102 (31.2)		
Air Flow Required for Rad. Cooled Unit:	CFM (m³/min)		24,175 (684)		
Air Flow Required for Heat Exchanger/F	Rem. Rad. CFM (m³/min)	Consult Factory Fo	r Remote Cooled Applications		
Fuel Consumption					
At 100% of Power Rating: gal/hr (lit/hr)			27.3 (103)		
At 75% of Power Rating: ft3/hr (m3/hr)			21.8 (82.5)		
At 50% of Power Rating: ft3/hr (m3/hr)			15.6 (59.1)		
Fluids Capacity					
Total Oil System: gal (lit)			9.50 (36.0)		
Engine Jacket Water Capacity: gal (lit)			5.28 (20.0)		
System Coolant Capacity: gal (lit)			11.6 (44.0)		

Deration Factors: Rated Power is available up to 3,280 Ft (1,000 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

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DCP7310 Control Panel

Standard Features

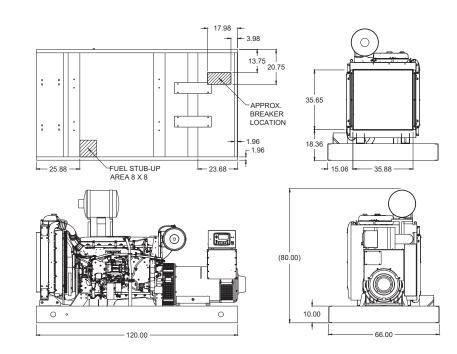
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator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

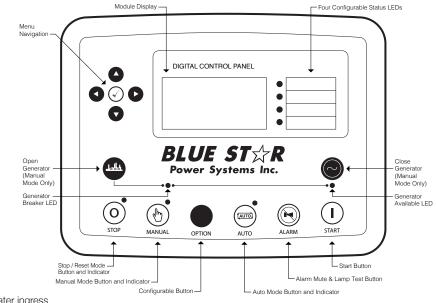
Weights / Dimensions / Sound Data

	L x W x H	Weight Ibs		
OPU	120 x 66 x 80 in	8,350		
Level 1	156 x 66 x 94 in	9,600		
Level 2	156 x 66 x 94 in	9,675		
Level 3	204 x 66 x 94 in	9,975		

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

	No Load	Full Load		
OPU	88 dBA	91 dBA		
Level 1	84 dBA	86 dBA		
Level 2	79 dBA	81 dBA		
Level 3	70 dBA	73 dBA		



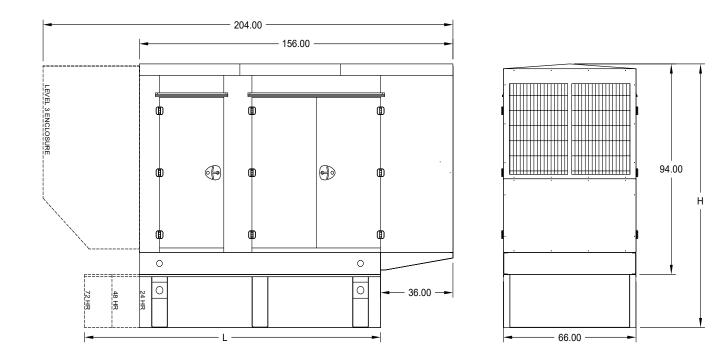


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Enclosures & Fuel Tanks



 All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards. 		24 Hour 710 Gallon	48 Hour 1420 Gallon	72 Hour 2130 Gallon
 Level 2 & 3 enclosures include sound attenuation foam 	L	120.00	192.00	276.00
 Level 3 enclosure includes frontal sound & exhaust hood. 	_			
 Enclosure height does not include exhaust stack. 	Н	126.00	130.00	130.00

American Owned



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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Blue Star Power Systems, Inc.