BLUE ST R Power Systems Inc.

Diesel Product Line

208-600 Volt

JD300-02 60 Hz / 1800 RPM

300 kWe Standby

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-E41	S4L1D-E41	S4L1D-D41	S4L1S-D4
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	300	300	300	300
AMPS	1042	903	452	361
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 (50°C)
- Radiator Duct Flange (OPU Only)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor Electronic Isochronous
- 12V 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
- ± .050% 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 12V 6 Amp
- Jacket Water Heater -20°F 2500W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

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300 kWe



Application Data

Engine				
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	549 (9.00)	
Model:	6090HFG86	Bore - in. (cm) x Stroke - in. (cm):	4.70 (11.8) x 5.40 (13.6)	
Type:	4-Cycle	Compression Ratio:	16.0:1	
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800	
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	463 (345)	
Exhaust System			Standby	
Gas Temp. (Stack): °F (°C)			927 (497)	
Gas Volume at Stack Temp: CFM (m³/r	min)		2,246 (63.6)	
Maximum Allowable Exhaust Restriction	on: in. H ₂ O (kPa)		30.0 (7.50)	
Cooling System				
Ambient Capacity of Radiator: °F (°C)			122 (50.0)	
Maximum Allowable Static Pressure or	n Rad. Exhaust: in. H ₂ O (kPa)		0.50 (0.12)	
Water Pump Flow Rate: GPM (lit/min)		78.0 (295)		
Heat Rejection to Coolant: BTUM (kW)			6,489 (114)	
Heat Rejection to CAC: BTUM (kW)			5,641 (99.1)	
Heat Radiated to Ambient: BTUM (kW)			5,997 (105)	
Air Requirements				
Aspirating: CFM (m³/min)			936 (26.5)	
Air Flow Required for Rad. Cooled Unit	:: CFM (m³/min)		19,014 (538)	
Air Flow Required for Heat Exchanger/	Rem. Rad. CFM (m³/min)	Consult Factory Fo	or Remote Cooled Applications	
Fuel Consumption				
At 100% of Power Rating: gal/hr (lit/hr)		21.2 (80.3)		
At 75% of Power Rating: gal/hr (lit/hr)		17.2 (65.2)		
At 50% of Power Rating: gal/hr (lit/hr)			12.9 (48.8)	
Fluids Capacity				
Total Oil System: gal (lit)			8.20 (31.0)	
Engine Jacket Water Capacity: gal (lit)			4.23 (16.0)	
System Coolant Capacity: gal (lit)			13.2 (50.0)	

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Deration Factors: Rated Power is available up to 2,500 ft (762 m) at ambient temperatures to 122°F (50°C).

Consult factory for site conditions above these parameters.

Diesel Product Line

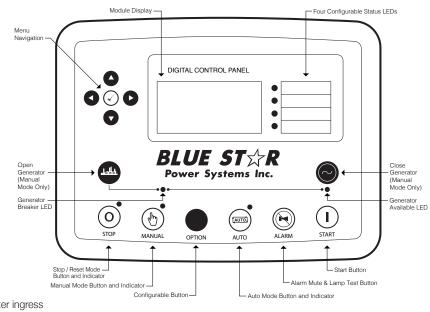
300 kWe



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

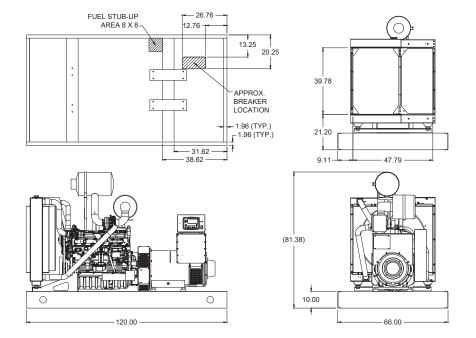


Weights / Dimensions / Sound Data

	LxWxH	Weight Ibs
OPU	120 x 66 x 82 in	5,800
Level 1	156 x 66 x 94 in	7,050
Level 2	156 x 66 x 94 in	7,225
Level 3	196 x 66 x 94 in	7,375

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

	No Load	Full Load	
OPU	85 dBA	87 dBA	
Level 1	81 dBA	83 dBA	
Level 2	76 dBA	78 dBA	
Level 3	69 dBA	71 dBA	



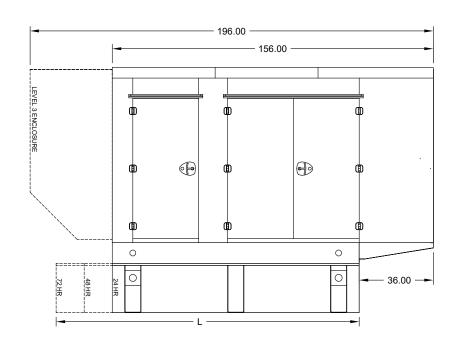
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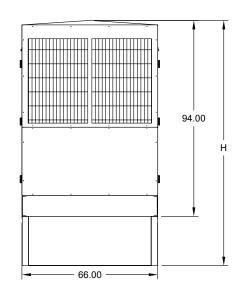
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Enclosures & Fuel Tanks





- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- 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 540 Gallon	48 Hour 1080 Gallon	72 Hour 1620 Gallon
L	120.00	162.00	228.00
Н	118.00	130.00	130.00

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.



American Made

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