

# BLUE STAR

## Power Systems Inc.

Diesel Product Line

208-600 Volt

JD275-02

60 Hz / 1800 RPM

275 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	S4L1S-D4	S4L1S-D4	S4L1S-D4	S4L1S-D4
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	275	275	275	275
AMPS	955	828	414	331
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
- ± 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 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

### Application Data

#### Engine

Manufacturer:	John Deere	Displacement - Cu. In. (lit):	549 (9.00)
Model:	6090HF484	Bore - in. (cm) x Stroke - in. (cm):	4.66 (11.84) x 5.35 (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 (kW <sub>m</sub> ):	422 (315)

#### Exhaust System

#### Standby

Gas Temp. (Stack): °F (°C)	1,180 (638)
Gas Volume at Stack Temp: CFM (m <sup>3</sup> /min)	2,085 (59.0)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa)	30.0 (7.50)

#### Cooling System

Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	74.0 (280)
Heat Rejection to Coolant: BTUM (kW)	5,920 (104)
Heat Rejection to CAC: BTUM (kW)	5,029 (88.0)
Heat Radiated to Ambient: BTUM (kW)	5,684 (99.5)

#### Air Requirements

Aspirating: CFM (m <sup>3</sup> /min)	901 (25.5)
Air Flow Required for Rad. Cooled Unit: CFM (m <sup>3</sup> /min)	15,333 (434)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m <sup>3</sup> /min)	Consult Factory For Remote Cooled Applications

#### Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	19.6 (74.3)
At 75% of Power Rating: gal/hr (lit/hr)	17.0 (64.2)
At 50% of Power Rating: gal/hr (lit/hr)	12.0 (45.4)

#### Fluids Capacity

Total Oil System: gal (lit)	8.20 (31.0)
Engine Jacket Water Capacity: gal (lit)	4.25 (16.0)
System Coolant Capacity: gal (lit)	13.2 (50.0)

Deration Factors: Rated Power is available up to 1,677 ft (511 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

## DCP7310 Control Panel

### Standard Features

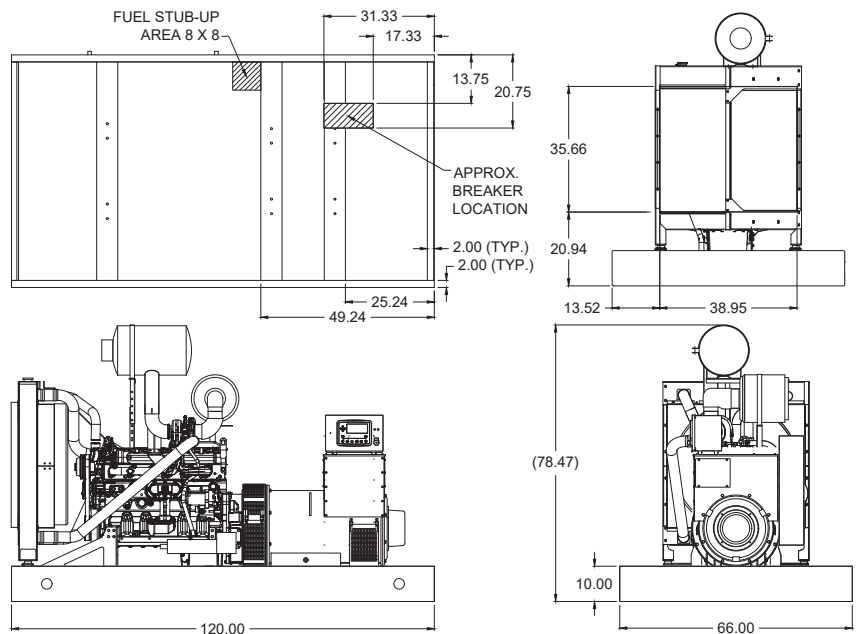
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator 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

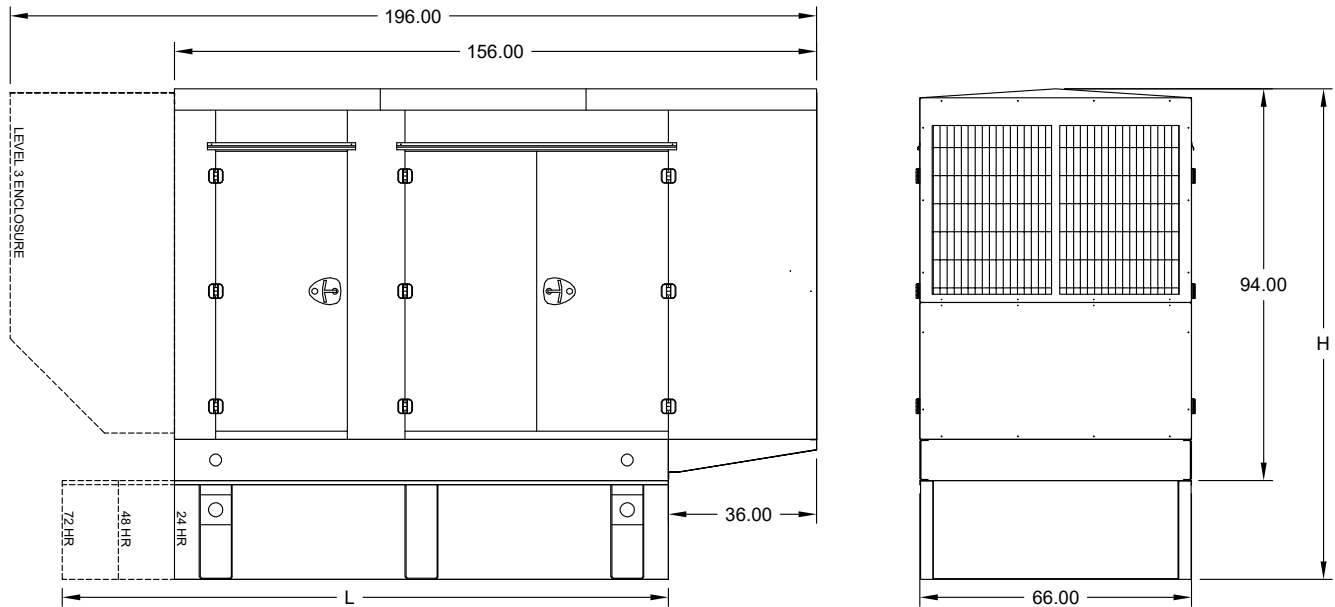
	L x W x H	Weight lbs
<b>OPU</b>	120 x 66 x 79 in	5,475
<b>Level 1</b>	156 x 66 x 94 in	6,700
<b>Level 2</b>	156 x 66 x 94 in	6,775
<b>Level 3</b>	196 x 66 x 94 in	7,125

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



	No Load	Full Load
<b>OPU</b>	84 dBA	86 dBA
<b>Level 1</b>	80 dBA	82 dBA
<b>Level 2</b>	75 dBA	77 dBA
<b>Level 3</b>	69 dBA	71 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 540 Gallon	48 Hour 1080 Gallon	72 Hour 1620 Gallon
<b>L</b>	120.00	162.00	228.00
<b>H</b>	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 Owned



American Made

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