

BLUE STAR

Power Systems Inc.

Diesel Product Line

208-600 Volt

JD60-02

60 Hz / 1800 RPM

60 kWe

Standby

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 | UCI224G | UCI224F | UCI224F | UCI224E | UCI224E |
| Connection | 12 LEAD DD | 12 LEAD WYE | 12 LEAD DELTA | 12 LEAD WYE | 4 LEAD WYE |
| kWe | 60 | 60 | 60 | 60 | 60 |
| AMPS | 250 | 208 | 181 | 90 | 72 |
| Temp Rise | 125°C / 40°C | 125°C / 40°C | 125°C / 40°C | 125°C / 40°C | 125°C / 40°C |

Standard Equipment

- | | | |
|---|--|--|
| <p>Engine</p> <ul style="list-style-type: none"> - 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 | <p>Generator</p> <ul style="list-style-type: none"> - Brushless Single Bearing - Automatic Voltage Regulator - ± 1% 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 | <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 12V 6 Amp - Jacket Water Heater -20°F 1500W 120V 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): | 275 (4.50) |
| Model: | 4045TF280 | Bore - in. (cm) x Stroke - in. (cm): | 4.19 (10.6) x 5.00 (12.7) |
| Type: | 4-Cycle | Compression Ratio: | 19.0:1 |
| Aspiration: | Turbo Charged | Rated RPM: | 1800 |
| Cylinder Arrangement: | 4 Cylinder Inline | Max HP Stby (kWm): | 85.0 (63.4) |

Exhaust System

Standby

| | |
|---|-------------|
| Gas Temp. (Stack): °F (°C) | 1,074 (579) |
| Gas Volume at Stack Temp: CFM (m³/min) | 679 (19.2) |
| Maximum Allowable Exhaust Restriction: in. H ₂ 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 ₂ O (kPa) | 0.50 (0.12) |
| Water Pump Flow Rate: GPM (lit/min) | 38.0 (144) |
| Heat Rejection to Coolant: BTUM (kW) | 2,049 (35.9) |
| Heat Radiated to Ambient: BTUM (kW) | 854 (14.9) |

Air Requirements

| | |
|---|--|
| Aspirating: CFM (m³/min) | 187 (5.29) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 4,760 (135) |
| 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) | 4.98 (18.9) |
| At 75% of Power Rating: gal/hr (lit/hr) | 3.89 (14.7) |
| At 50% of Power Rating: gal/hr (lit/hr) | 2.47 (10.4) |

Fluids Capacity

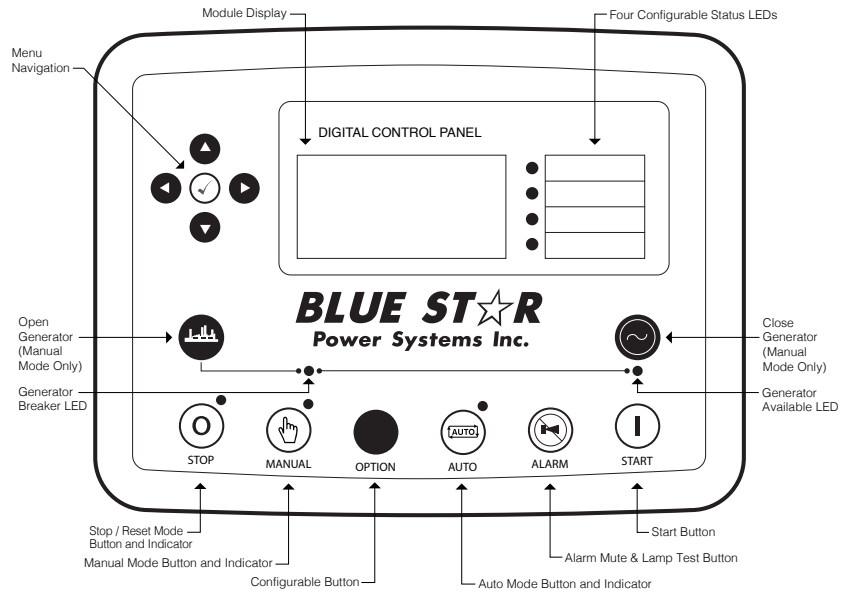
| | |
|---|-------------|
| Total Oil System: gal (lit) | 3.88 (14.7) |
| Engine Jacket Water Capacity: gal (lit) | 2.32 (8.50) |
| System Coolant Capacity: gal (lit) | 5.40 (20.4) |

Deration Factors: Rated Power is available up to 10,000 ft (3,048 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

DCP7310 Control Panel

Standard Features

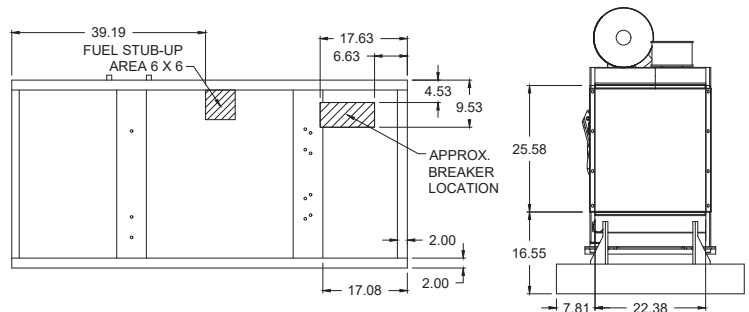
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator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



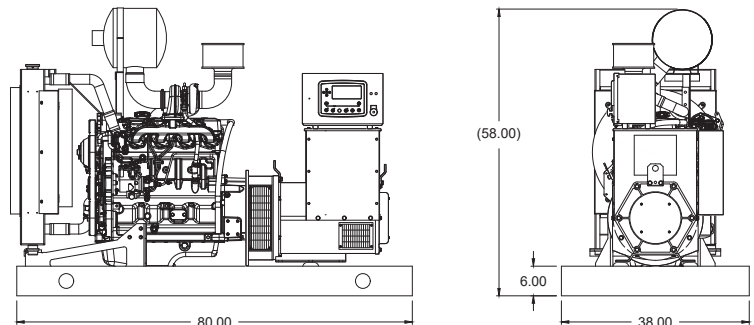
Weights / Dimensions / Sound Data

| | L x W x H | Weight lbs |
|----------------|------------------|------------|
| OPU | 80 x 38 x 58 in | 2,225 |
| Level 1 | 90 x 38 x 60 in | 2,725 |
| Level 2 | 90 x 38 x 60 in | 2,775 |
| Level 3 | 120 x 38 x 60 in | 2,925 |

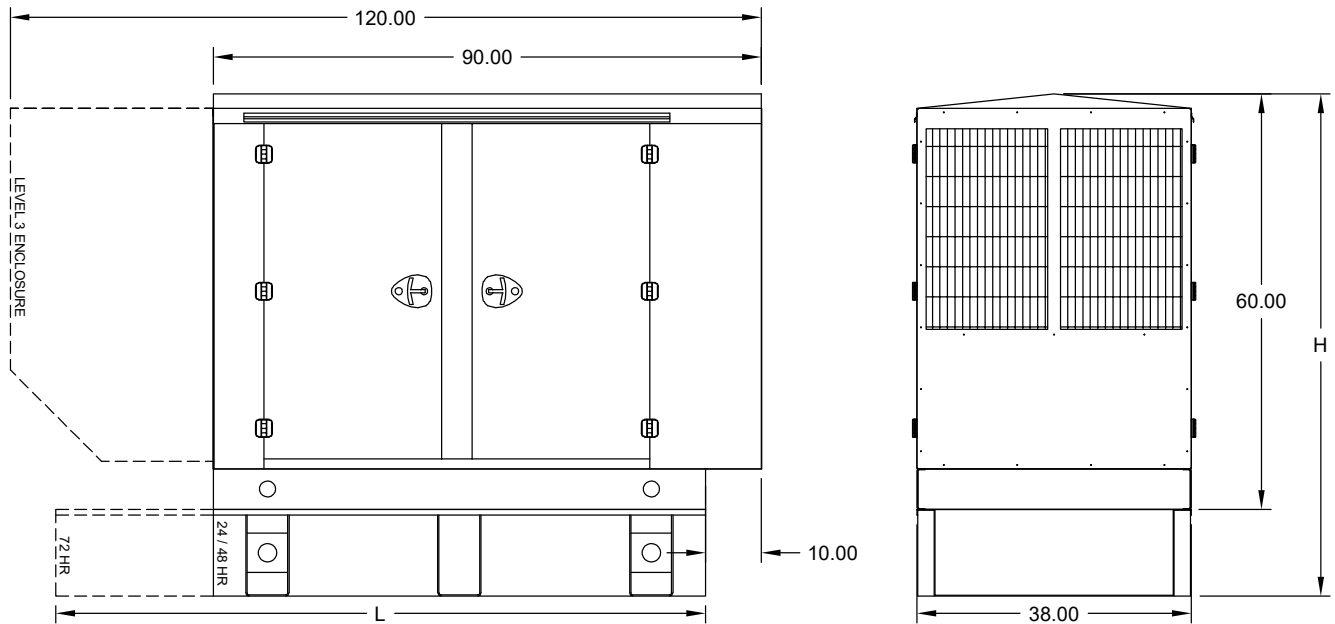
Please allow 6-12 inches for height of exhaust stack.



| | No Load | Full Load |
|----------------|---------|-----------|
| OPU | 73 dBA | 77 dBA |
| Level 1 | 71 dBA | 73 dBA |
| Level 2 | 68 dBA | 70 dBA |
| Level 3 | 63 dBA | 65 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 120 Gallon | 48 Hour 240 Gallon | 72 Hour 360 Gallon |
|----------|-----------------------|-----------------------|-----------------------|
| L | 80.00 | 80.00 | 108.00 |
| H | 80.00 | 96.00 | 96.00 |

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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