

BLUE STAR

Power Systems Inc.

Diesel Product Line

208-600 Volt

JD275-03IT4

60 Hz / 1800 RPM

275 kWe / 260 kWe

Standby / Prime

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 | 572RSL4027 | 432CSL6210 | 432CSL6210 | 432CSL6210 | 432PSL6246 |
| Connection | 12 LEAD ZIG-ZAG | 12 LEAD WYE | 12 LEAD DELTA | 12 LEAD WYE | 4 LEAD WYE |
| Standby | | | | | |
| kWe | 275 | 275 | 275 | 275 | 275 |
| AMPS | 1146 | 955 | 828 | 414 | 331 |
| Temp Rise | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C |
| Prime | | | | | |
| kWe | 260 | 260 | 260 | 260 | 260 |
| AMPS | 1083 | 903 | 782 | 391 | 313 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |

Standard Equipment

Engine

- ▶ Radiator Cooled Unit Mounted (50°C)
- ▶ Blower Fan & Fan Drive
- ▶ Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/Valve
- ▶ Governor - Electronic Isochronous
- ▶ 12V Battery System & Cables
- ▶ SAE Flywheel & Housing
- ▶ Air Cleaner (Dry Single Stage)
- ▶ Exhaust Particulate Filter / Silencer Mtd
- ▶ Flexible Fuel Connectors
- ▶ EPA Certified - Tier IT4

Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1.0% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°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

Additional

- ▶ Microprocessor Based Digital Control
- ▶ 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
- ▶ Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Colors - White / Tan / Gray

Diesel Product Line

275 kWe / 260 kWe



Application Data

Engine

| | | | |
|-----------------------|--------------------|--------------------------------------|---------------------------|
| Manufacturer: | John Deere | Displacement - Cu. In. (lit): | 549 (9.0) |
| Model: | 6090HFG95 | Bore - in. (cm) x Stroke - in. (cm): | 4.66 (11.8) x 5.35 (13.6) |
| Type: | 4-Cycle | Compression Ratio: | 16:1 |
| Aspiration: | Turbo Charged, CAC | Rated RPM: | 1800 |
| Cylinder Arrangement: | 6 Cylinder Inline | Max HP Stby (kWm): | 440 (328) |

Exhaust System

| Standby | Prime |
|--|-------------|
| Gas Temp. (Stack): °F (°C) | 846 (452) |
| Gas Volume at Stack Temp: CFM (m³/min) | 1730 (49.0) |
| Maximum Allowable Exhaust Restriction: in. H2O (kPa) | 41.0 (10.3) |

Cooling System

| | | |
|--|--------------|--------------|
| Ambient Capacity of Radiator: °F (°C) | 122 (50.0) | 122 (50.0) |
| Maximum Allowable Static Pressure on Rad. Exhaust: in. H2O (kPa) | 0.5 (0.12) | 0.5 (0.12) |
| Water Pump Flow Rate: Gpm (lit/min) | 107 (405) | 107 (405) |
| Heat Rejection to Coolant: BTUM (kW) | 11,020 (194) | 11,020 (194) |
| Heat Rejection to CAC: BTUM (kW) | 5,635 (99) | 5,635 (99) |
| Heat Radiated to Ambient: BTUM (kW) | 2,544 (44.5) | 2,544 (44.5) |

Air Requirements

| | | |
|---|--|--------------|
| Aspirating: CFM (m³/min) | 812 (23.0) | 812 (23.0) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 21,883 (619) | 21,883 (619) |
| 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) | 22.0 (83.3) | 18.7 (70.8.8) |
| At 75% of Power Rating: gal/hr (lit/hr) | 15.4 (58.3) | 14.1 (53.4) |
| At 50% of Power Rating: gal/hr (lit/hr) | 10.7 (40.5) | 9.6 (36.3) |

Fluids Capacity

| | | |
|---|-------------|-------------|
| Total Oil System: gal (lit) | 8.2 (31.0) | 9.0 (34.0) |
| Engine Jacket Water Capacity: gal (lit) | 4.5 (17.0) | 4.5 (17.0) |
| System Coolant Capacity: gal (lit) | 14.3 (54.1) | 14.3 (54.1) |

Deration Factors

Rated Power is available up to 5500 ft (1676 m) at ambient temperatures to 122°F (50°C) standby and prime.
Consult factory for site conditions above these parameters.

DGC-2020 Control Panel

Standard Features

- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible

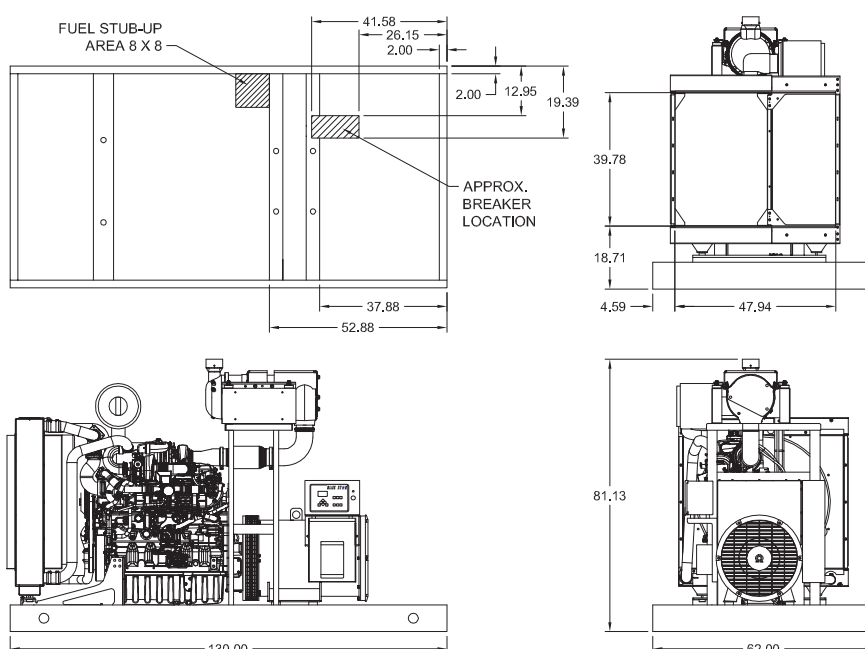


Weights / Dimensions / Sound Data

| | L x W x H | Weight lbs |
|----------------|-------------------|------------|
| OPU | 130 x 62 x 81 in | 6500 |
| Level 1 | 130 x 62 x 100 in | 7500 |
| Level 2 | 130 x 62 x 114 in | 7950 |
| Level 3 | 190 x 62 x 106 in | 8400 |

Height measured from bottom of base to exhaust stack.

| | No Load | Full Load |
|----------------|---------|-----------|
| OPU | 80 dBA | 84 dBA |
| Level 1 | 79 dBA | 83 dBA |
| Level 2 | 77 dBA | 80 dBA |
| Level 3 | 68 dBA | 71 dBA |



Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice.
Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

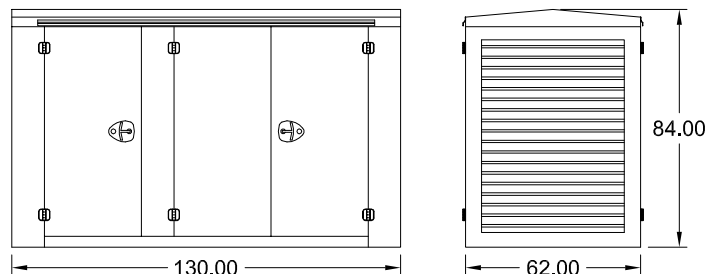
Diesel Product Line

275 kWe / 260 kWe

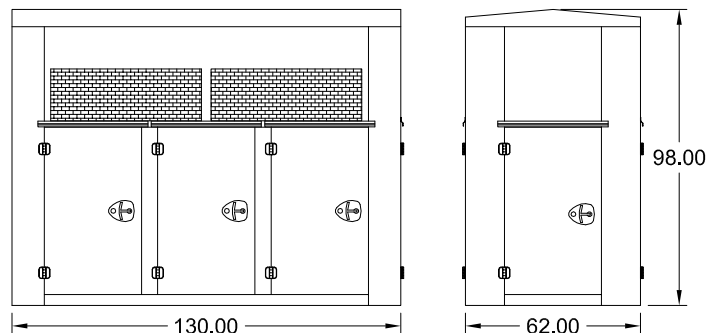


Optional Enclosures and Fuel Tanks

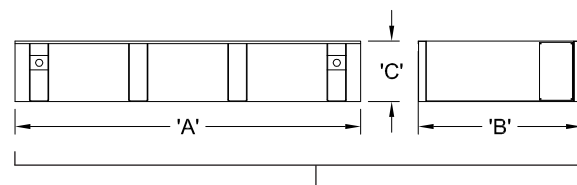
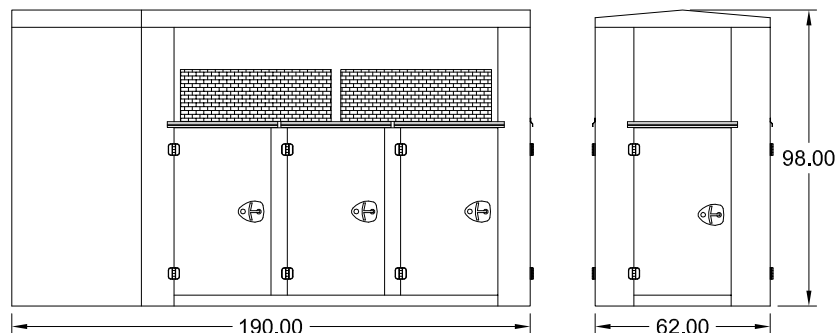
Level 1 Enclosure (WPE)



Level 2 Enclosure (WPF)



Level 3 Enclosure (SAE)



*Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).

**Level 2 & 3 enclosures are 150 MPH Wind Rated as standard.

***Enclosure height does not include unit base or exhaust stack.

Double Wall UL 142 Listed Fuel Tanks

| | 24 Hour (550 Gallon) | | | 48 Hour (1100 Gallon) | | | 72 Hour (1650 Gallon) | | |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|-----------------------|-------|-------|
| | A | B | C | A | B | C | A | B | C |
| OPU | 130.00 | 62.00 | 24.00 | 165.00 | 62.00 | 36.00 | 234.00 | 62.00 | 36.00 |
| Level 1 | 130.00 | 62.00 | 24.00 | 165.00 | 62.00 | 36.00 | 234.00 | 62.00 | 36.00 |
| Level 2 | 130.00 | 62.00 | 24.00 | 165.00 | 62.00 | 36.00 | 234.00 | 62.00 | 36.00 |
| Level 3 | 190.00 | 62.00 | 16.00 | 190.00 | 62.00 | 30.00 | 234.00 | 62.00 | 36.00 |

*All specification sheet dimensions are represented in inches.

**All enclosures and fuel tanks are based on the standard unit configuration. Any deviation can change dimensions.

***Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:



A USA COMPANY

Blue Star Power Systems, Inc.

52146 Ember Rd, Lake Crystal, MN 56055

Phone + 1 507 726 2508

www.bluestarps.com