

208-600 Volt

JD250-03IT4 60 Hz / 1800 RPM

250 kWe / 230 kWe Standby / Prime

## Ratings

	240V	208V	240V	480 <b>V</b>	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	572RSL4025	432CSL6210	432CSL6210	432CSL6210	432PSL6246
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe	250	250	250	250	250
AMPS	1041	868	753	376	301
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime					
kWe	230	230	230	230	230
AMPS	958	799	692	346	277
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

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## 250 kWe / 230 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):	398 (297)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	716 (380)	716 (380)
Gas Volume at Stack Temp: CFM (m³/min)	1483 (42.0)	1483 (42.0)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	41.0 (10.3)	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. H20 (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)	10,194 (179)	10,194 (179)
Heat Rejection to CAC: BTUM (kW)	4,952 (87.0)	4,952 (87.0)
Heat Radiated to Ambient: BTUM (kW)	2,312 (40.5)	2,127 (37.2)
Air Requirements		
Aspirating: CFM (m³/min)	742 (21.0)	742 (21.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	22,302 (631)	22,302 (631)
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)	19.1 (72.4)	13.9 (52.8)
At 75% of Power Rating: gal/hr (lit/hr)	13.9 (52.7)	10.8 (40.9)
At 50% of Power Rating: gal/hr (lit/hr)	9.7 (36.7)	7.5 (28.5)
Fluids Capacity		
Total Oil System: gal (lit)	9.0 (34.0)	9.0 (34.0)
Engine Jacket Water Capacity: gal (lit)	4.5 (17.0)	4.5 (17.0)
System Coolant Capacity: gal (lit)	13.2 (50.0)	13.2 (50.0)

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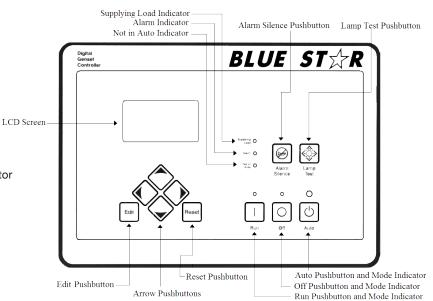
## 250 kWe / 230 kWe



## 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

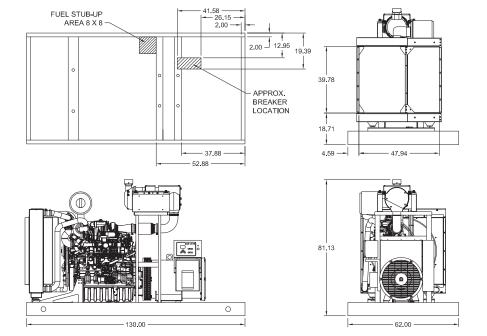


## Weights / Dimensions / Sound Data

	LxWxH	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	78 dBA	82 dBA
Level 1	76 dBA	80 dBA
Level 2	75 dBA	78 dBA
Level 3	67 dBA	70 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.

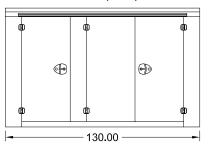
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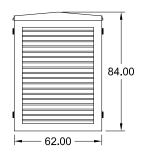
## 250 kWe / 230 kWe



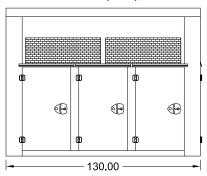
# Optional Enclosures and Fuel Tanks

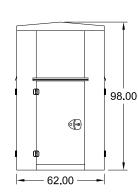
#### Level 1 Enclosure (WPE)



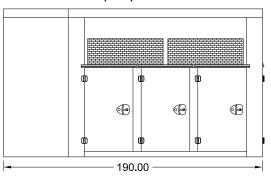


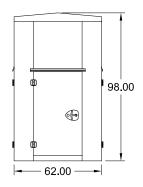
## Level 2 Enclosure (WPF)

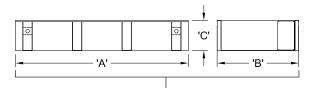




### Level 3 Enclosure (SAE)







<sup>\*\*\*</sup>Enclosure height does not include unit base or exhaust stack.

	24 Hour (475 Gallon)			48 Hour (9	48 Hour (950 Gallon)			72 Hour (1425 Gallon)		
	A	В	С	Α	В	С	Α	В	С	
OPU	130.00	62.00	22.00	150.00	62.00	36.00	210.00	62.00	36.00	
Level 1	130.00	62.00	22.00	150.00	62.00	36.00	210.00	62.00	36.00	
Level 2	130.00	62.00	22.00	150.00	62.00	36.00	210.00	62.00	36.00	
Level 3	190.00	62.00	14.00	190.00	62.00	28.00	210.00	62.00	36.00	

<sup>\*</sup>All specification sheet dimensions are represented in inches.

Materials and specifications subject to change without notice.

# Distributed By:



Blue Star Power Systems, Inc.

52146 Ember Rd, Lake Crystal, MN 56055 Phone + 1 507 726 2508 www.bluestarps.com

**JD250-03IT4** Rev1.0

<sup>\*</sup>Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).

 $<sup>^{\</sup>star\star}\text{Level}$  2 & 3 enclosures are 150 MPH Wind Rated as standard.

<sup>\*\*</sup>All enclosures and fuel tanks are based on the standard unit configuration. Any deviation can change dimensions.

<sup>\*\*\*</sup>Level 1 enclosure not UL listed.