

208-600 Volt

JD40-04FT4

60 Hz / 1800 RPM

40 kWe / 40 kWe Standby / Prime

Ratings

	240V	208V	240V	480 V	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	287PSL1702	285PSL1700	285PSL1700	285PSL1700	285PSL5254
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe	40	40	40	40	40
AMPS	167	139	120	60	48
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C
Prime					
kWe	40	40	40	40	40
AMPS	167	139	120	60	48
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
- ► Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connector
- ▶ EPA Certified Tier 4 Final
- ▶ DOC/DPF Exhaust Filter

Listing Certifications

▶ NFPA 110 Compliant

Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 105°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
- ▶ Interface Connection Box
- ▶ Control Panel Mounted in NEMA 12 Enclosure
- ▶ Base Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Exhaust Filter / Silencer Mounted
- ▶ Battery Charger 12V 6 Amp
- ► Jacket Water Heater -20°F 1000W 120V 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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40 kWe / 40 kWe



Application Data

Engine			
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	177 (2.90)
Model:	3029HFG03	Bore - in. (cm) x Stroke - in. (cm):	4.20 (10.7) x 4.30 (11.0)
Type:	4-Cycle	Compression Ratio:	16.9:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	3 Cylinder Inline	Max HP Stby (kWm):	74.0 (55.2)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	1,044 (562)	1,044 (562)
Gas Volume at Stack Temp: CFM (m³/min)	463 (13.1)	463 (13.1)
Maximum Allowable Exhaust Restriction (Post DPF): in. H ₂ O (kPa)	22.0 (5.50)	22.0 (5.50)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	26.0 (98.4)	26.0 (98.4)
Heat Rejection to Coolant: BTUM (kW)	1,713 (30.0)	1,713 (30.0)
Heat Rejection to CAC: BTUM (kW)	638 (11.2)	638 (11.2)
Heat Radiated to Ambient: BTUM (kW)	444 (7.77)	444 (7.77)
Air Requirements		
Aspirating: CFM (m³/min)	177 (5.01)	177 (5.01)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	6,714 (190)	6,714 (190)
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)	3.56 (13.5)	3.56 (13.5)
At 75% of Power Rating: gal/hr (lit/hr)	2.86 (10.8)	2.86 (10.8)
At 50% of Power Rating: gal/hr (lit/hr)	2.20 (8.33)	2.20 (8.33)
Fluids Capacity		
Total Oil System: gal (lit)	2.25 (8.50)	2.25 (8.50)
Engine Jacket Water Capacity: gal (lit)	1.32 (5.00)	1.32 (5.00)
System Coolant Capacity: gal (lit)	4.62 (17.5)	4.62 (17.5)

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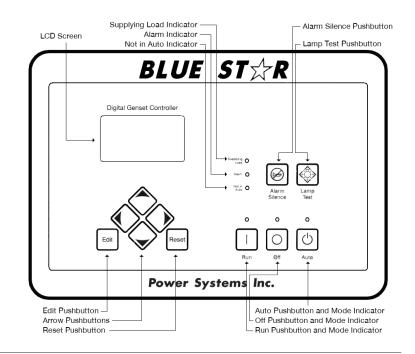
40 kWe / 40 kWe



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

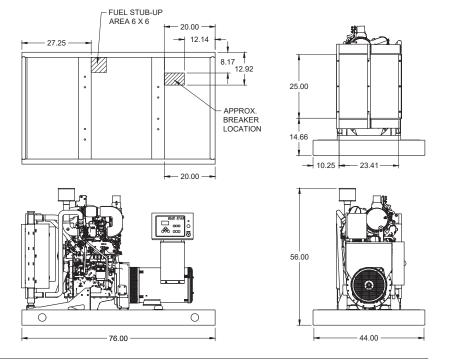


Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	76 x 44 x 56 in	2,075
Level 1	90 x 44 x 74 in	2,550
Level 2	90 x 44 x 74 in	2,600
Level 3	115 x 44 x 74 in	2,725

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

	No Load	Full Load
OPU	72 dBA	74 dBA
Level 1	66 dBA	68 dBA
Level 2	62 dBA	65 dBA
Level 3	60 dBA	62 dBA



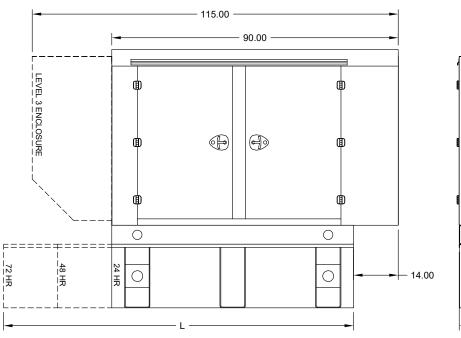
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

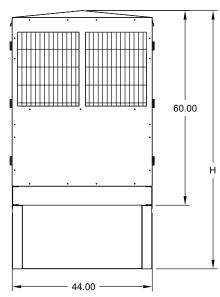
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Enclosures





All enclosures are 200 MPH wind rated in accordance with IBC2018 and ASCE/SEI 7 - 16 standards.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

	24 Hour 150 Gallon	48 Hour 300 Gallon	72 Hour 450 Gallon
L	76.00	100.00	110.00
Н	80.00	88.00	96.00

All specification sheet dimensions are represented in inches.

All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions. Materials and specifications subject to change without notice.



Blue Star Power Systems, Inc.

2250 Carlson Drive

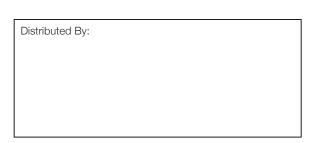
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^{*}Enclosure height does not include exhaust stack.