

208-600 Volt

JD30-02 60 Hz / 1800 RPM

30 kWe / 25 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	284PSL1708	283PSL1707	283PSL1707	283PSL1707	283PSL5251	
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE	
Standby						
kWe	30	30	30	30	30	
AMPS	125	104	90	45	36	
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	
Prime						
kWe	25	25	25	25	25	
AMPS	104	87	75	38	30	
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)
- ▶ 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

- ▶ UL 2200 Listed
- ▶ cUL Listed



- ▶ Microprocessor Based Digital Control
- ▶ Base Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Critical Grade 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

JD30-02

30 kWe / 25 kWe



Application Data

Engine			
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	146 (2.4)
Model:	4024TF281	Bore - in. (cm) x Stroke - in. (cm):	3.4 (8.6) x 4.1 (10.5)
Type:	4-Cycle	Compression Ratio:	20.5:1
Aspiration:	Turbo Charged	Rated RPM:	1800
Cylinder Arrangement:	4 Cylinder Inline	Max HP Stby (kWm):	49.0 (36.0)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	1,026 (552)	963 (517)
Gas Volume at Stack Temp: CFM (m³/min)	283 (8.1)	261 (7.38)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	30.0 (7.5)	30.0 (7.5)
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)	24.0 (91.8)	24.8 (91.8)
Heat Rejection to Coolant: BTUM (kW)	1,423 (24.9)	1,309 (22.9)
Heat Radiated to Ambient: BTUM (kW)	470 (8.21)	396 (6.85)
Air Requirements		
Aspirating: CFM (m³/min)	106 (3.0)	99.0 (2.8)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	2,606 (74.0)	2,606 (74.0)
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)	2.79 (10.6)	2.52 (9.54)
At 75% of Power Rating: gal/hr (lit/hr)	2.06 (7.8)	1.89 (7.15)
At 50% of Power Rating: gal/hr (lit/hr)	1.39 (5.26)	1.24 (4.69)
Fluids Capacity		
Total Oil System: gal (lit)	2.1 (8.0)	2.1 (8.0)
Engine Jacket Water Capacity: gal (lit)	0.68 (2.6)	0.68 (2.6)
System Coolant Capacity: gal (lit)	2.3 (8.7)	2.3 (8.7)

JD30-02 2

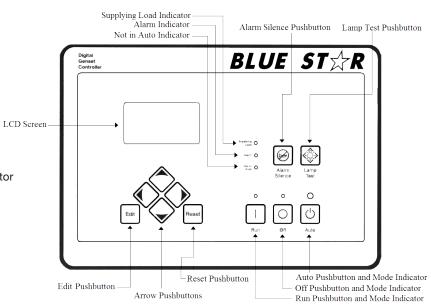
30 kWe / 25 kWe



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

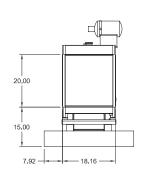


Weights / Dimensions / Sound Data

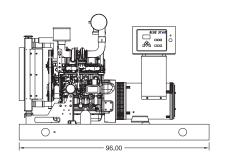
	LxWxH	Weight lbs
OPU	72 x 34 x 48 in	1375
Level 1	72 x 34 x 60 in	1675
Level 2	72 x 34 x 72 in	1850
Level 3	96 x 34 x 66 in	2050

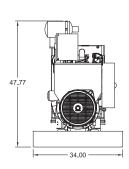
Height measured from bottom of base to exhaust stack.

30.56 FUEL STUB-UP AREA 6 X 6	-	23.88	2.00
			3.17 7.92 APPROX. BREAKER LOCATION
		21 44	



	No Load	Full Load
OPU	69 dBA	72 dBA
Level 1	66 dBA	68 dBA
Level 2	64 dBA	66 dBA
Level 3	61 dBA	63 dBA





3

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.

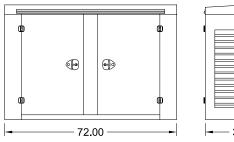
JD30-02

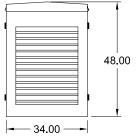
30 kWe / 25 kWe



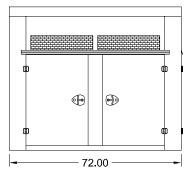
Optional Enclosures and Fuel Tanks

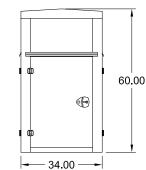
Level 1 Enclosure (WPE)



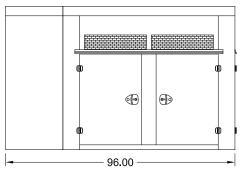


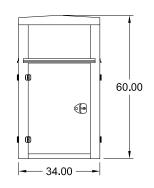
Level 2 Enclosure (WPF)





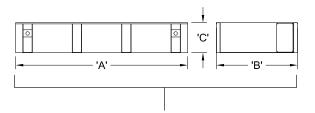
Level 3 Enclosure (SAE)







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



Double Wall UL 142 Listed Fuel Tanks									
	24 Hour (70 Gallon)		48 Hour (1	48 Hour (140 Gallon)			72 Hour (210 Gallon)		
	Α	В	С	A	В	С	A	В	С
OPU	72.00	34.00	14.00	72.00	34.00	26.00	90.00	34.00	28.00
Level 1	72.00	34.00	14.00	72.00	34.00	26.00	90.00	34.00	28.00
Level 2	72.00	34.00	14.00	72.00	34.00	26.00	90.00	34.00	28.00
Level 3	96.00	34.00	10.00	96.00	34.00	18.00	96.00	34.00	26.00
Level 3	96.00	34.00	10.00	96.00	34.00	18.00	96.00	34.00	26.00

^{*}All specification sheet dimensions are represented in inches.

Materials and specifications subject to change without notice.





Blue Star Power Systems, Inc.

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

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

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

^{***}Level 1 enclosure not UL listed.