

208-600 Volt

JD50-03 60 Hz / 1800 RPM

50 kWe / 45 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	361CSL1602	361CSL1601 361CSL1601 361CSL1601		361CSL1601	361PSL1633
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe	50	50	50	50	50
AMPS	208	174	151	75	60
Temp Rise	mp Rise 130°C / 27°C 130°C		130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available	For Mobile Applications]				
kWe	45 45		45	45	45
AMPS	188	156	135	68	54
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 3

#### 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 1500W 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

JD50-03

#### 50 kWe / 45 kWe



# Application Data

Engine			
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	275 (4.5)
Model:	4045TF280	Bore - in. (cm) x Stroke - in. (cm):	4.19 (10.6) x 5.0 (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):	75.0 (56.0)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	945 (507)	918 (492)
Gas Volume at Stack Temp: CFM (m³/min)	448 (12.7)	424 (12.0)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	30 (7.5)	30 (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)	38.0 (144)	38.0 (144)
Heat Rejection to Coolant: BTUM (kW)	1,821 (31.9)	1707 (29.9)
Heat Radiated to Ambient: BTUM (kW)	512 (9.0)	448 (7.8)
Air Requirements		
Aspirating: CFM (m³/min)	180 (5.09)	173 (4.9)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	4,760 (135)	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)	4.13 (15.6)	3.82 (14.4)
At 75% of Power Rating: gal/hr (lit/hr)	3.25 (12.3)	2.99 (11.3)
At 50% of Power Rating: gal/hr (lit/hr)	2.21 (8.37)	2.11 (8.0)
Fluids Capacity		
Total Oil System: gal (lit)	3.88 (14.7)	3.88 (14.7)
Engine Jacket Water Capacity: gal (lit)	2.25 (8.52)	2.25 (8.52)
System Coolant Capacity: gal (lit)	5.38 (20.4)	5.38 (20.4)

JD50-03

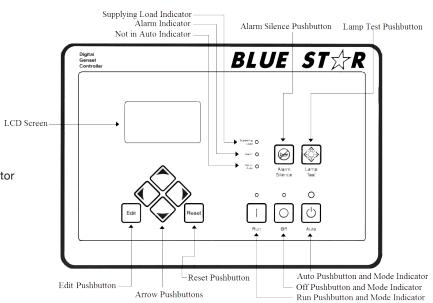
#### 50 kWe / 45 kWe



### 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

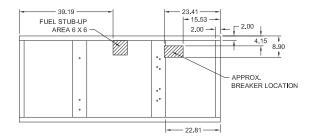


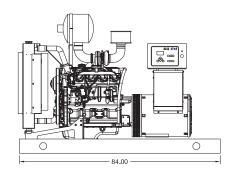
## Weights / Dimensions / Sound Data

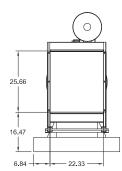
	LxWxH	Weight lbs
OPU	84 x 36 x 59 in	1975
Level 1	84 x 36 x 66 in	2350
Level 2	84 x 36 x 83 in	2550
Level 3	110 x 36 x 77 in	2700

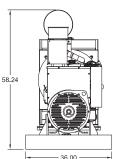
Height measured from bottom of base to exhaust stack.

	No Load	Full Load
OPU	75 dBA	79 dBA
Level 1	71 dBA	74 dBA
Level 2	69 dBA	72 dBA
Level 3	63 dBA	66 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.

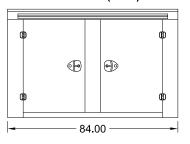
JD50-03

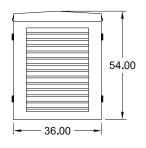
#### 50 kWe / 45 kWe



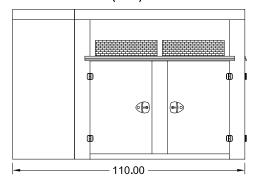
# Optional Enclosures and Fuel Tanks

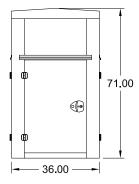
#### Level 1 Enclosure (WPE)



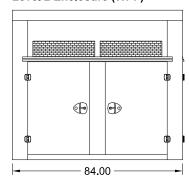


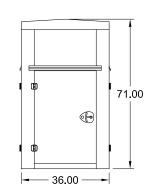
#### Level 3 Enclosure (SAE)



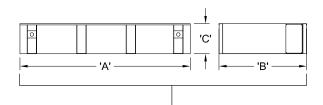


#### Level 2 Enclosure (WPF)





- \*Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).
- $^{\star\star}\text{Level}$  2 & 3 enclosures are 150 MPH Wind Rated as standard.



	24 Hour (120 Gallon)		48 Hour (2	48 Hour (240 Gallon)			72 Hour (360 Gallon)		
	A	В	С	Α	В	С	Α	В	С
OPU	84.00	36.00	18.00	84.00	36.00	32.00	104.00	36.00	36.00
Level 1	84.00	36.00	18.00	84.00	36.00	32.00	104.00	36.00	36.00
Level 2	84.00	36.00	18.00	84.00	36.00	32.00	104.00	36.00	36.00
Level 3	110.00	36.00	14.00	110.00	36.00	24.00	110.00	36.00	36.00

- \*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.

# Distributed By:



#### Blue Star Power Systems, Inc.

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

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

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