

# Diesel Product Line

### 208-600 Volt

## 60 Hz / 1800 RPM

Standby

### 50 kWe

**JD50-03** 

## 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	361PSL1633
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	50	50	50	50	50
AMPS	208	174	151	75	60
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°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 3

#### Listing Certifications

- ► UL 2200 Listed
- ► cUL Listed
- CSA Certified
- ▶ Seismic Certified to IBC 2018
- ▶ NFPA 110 Compliant

### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ► ± 1% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°C Standby Temperature Rise
- ▶ 100% of Rated Load One Step
- ► 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

#### Additional

- ▶ Single Source Supplier
- Microprocessor Based Digital Control
- ► Interface Connection Box
- ► Control Panel Mounted in NEMA 12 Enclosure
- ▶ 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/lsolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- ► 2YR / 2000HR Standby Warranty
- Standard Colors White / Gray

### 50 kWe

# BLUE ST R Power Systems Inc.

## Application Data

Engine			
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	275 (4.50)
Model:	4045TF280	Bore - in. (cm) x Stroke - in. (cm):	4.19 (10.6) x 5.00 (12.7)
Туре:	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
Gas Temp. (Stack): °F (°C)			945 (507)
Gas Volume at Stack Temp: CFM (m³/m	nin)		448 (12.7)
Maximum Allowable Exhaust Restriction	n: in. H2O (kPa)		30.0 (7.50)
Cooling System			
Ambient Capacity of Radiator: °F (°C)			122 (50.0)
Maximum Allowable Static Pressure on	Rad. Exhaust: in. H2O (kPa)		0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)			38.0 (144)
Heat Rejection to Coolant: BTUM (kW)			1,821 (31.9)
Heat Radiated to Ambient: BTUM (kW)			512 (9.00)
Air Requirements			
Aspirating: CFM (m³/min)			180 (5.09)
Air Flow Required for Rad. Cooled Unit	: CFM (m³/min)		4,760 (135)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory F	or Remote Cooled Applications
Fuel Consumption			
At 100% of Power Rating: gal/hr (lit/hr)			4.13 (15.6)
At 75% of Power Rating: gal/hr (lit/hr)			3.29 (12.45)
At 50% of Power Rating: gal/hr (lit/hr)			2.27 (8.59)
Fluids Capacity			
Total Oil System: gal (lit)			3.88 (14.7)
Engine Jacket Water Capacity: gal (lit)			2.25 (8.52)
System Coolant Capacity: gal (lit)			5.38 (20.4)

Deration Factors

Rated Power is available up to 10,000 ft (3,048 m) at ambient temperatures to 122°F (50°C) standby and prime.

Consult factory for site conditions above these parameters.

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### 50 kWe

# BLUE ST R Power Systems Inc.

## DGC-2020 Control Panel

### Standard Features

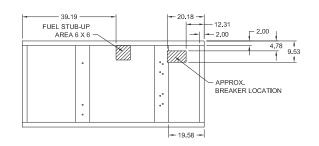
- ► Digital Metering
- ▶ Engine Parameters
- ► Generator Protection Functions
- ▶ Engine Protection
- ► CAN Bus (J1939) ECU Communications
- ► Windows-Based Software
- Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ 15 Contact Outputs
- ▶ RS485 Communicator Interface
- ▶ UL Recognized, CSA Certified, CE Approved
- ► Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible

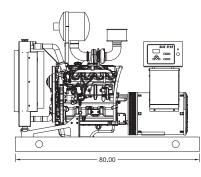
## Weights / Dimensions / Sound Data

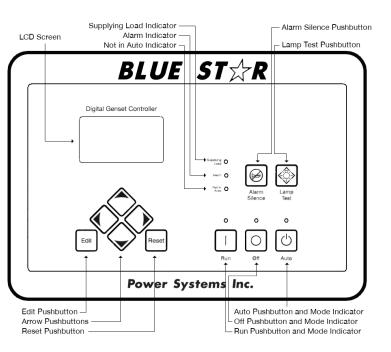
	L x W x H	Weight lbs
OPU	80 x 38 x 58 in	2,000
Level 1	90 x 38 x 60 in	2,500
Level 2	90 x 38 x 60 in	2,550
Level 3	120 x 38 x 60 in	2,700

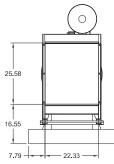
Please allow 6-12 inches for height of exhaust stack.

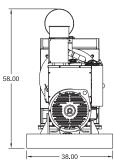
	No Load	Full Load
OPU	73 dBA	77 dBA
Level 1	71 dBA	73 dBA
Level 2	68 dBA	70 dBA
Level 3	63 dBA	65 dBA







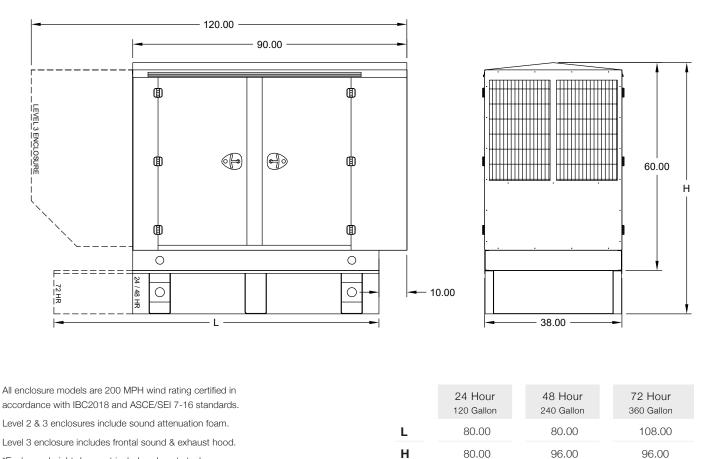




Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.



## Enclosures & Fuel Tanks



\*Enclosure height does not include exhaust stack.

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.



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