# BLUE ST R Power Systems Inc.

## Diesel Product Line

208-600 Volt

JD80-02 60 Hz / 1800 RPM

80 kWe Standby

## 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	363CSL1607	362CSL1604	362CSL1604	362CSL1604	362PSL1635
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	80	80	80	80	80
AMPS	333	278	241	120	96
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/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ Radiator Duct Flange (OPU Only)
- ▶ 2YR / 2000HR Standby Warranty
- ▶ Standard Colors White / Gray

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# Diesel Product Line

## 80 kWe



# Application Data

Engine			
Manufacturer:	John Deere	Displacement - Cu. In. (lit):	275 (4.50)
Model:	4045HF285	Bore - in. (cm) x Stroke - in. (cm):	4.19 (10.6) x 5.00 (12.7)
Type:	4-Cycle	Compression Ratio:	19.0:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	4 Cylinder Inline	Max HP Stby (kWm):	126 (94.0)

Exhaust System	Standby
Gas Temp. (Stack): °F (°C)	1,069 (576)
Gas Volume at Stack Temp: CFM (m³/min)	651 (18.4)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (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)	48.0 (182)
Heat Rejection to Coolant: BTUM (kW)	2,990 (52.3)
Heat Rejection to CAC: BTUM (kW)	627 (11.8)
Heat Radiated to Ambient: BTUM (kW)	1,138 (19.9)
Air Requirements	
Aspirating: CFM (m³/min)	234 (6.62)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	6,541 (185)
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)	6.60 (25.0)
At 75% of Power Rating: gal/hr (lit/hr)	5.37 (20.3)
At 50% of Power Rating: gal/hr (lit/hr)	3.96 (15.0)
Fluids Capacity	
Total Oil System: gal (lit)	3.43 (13.0)
Engine Jacket Water Capacity: gal (lit)	2.24 (8.50)
System Coolant Capacity: gal (lit)	5.40 (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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# Diesel Product Line

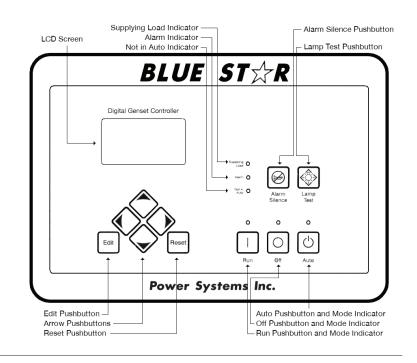
### 80 kWe



## 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

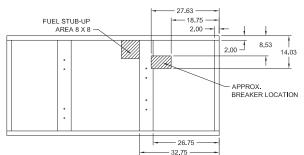


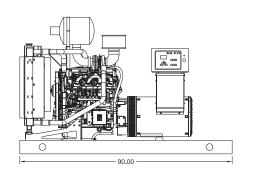
# Weights / Dimensions / Sound Data

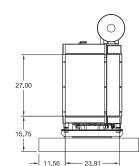
	LxWxH	Weight lbs
OPU	90 x 44 x 61 in	2,425
Level 1	102 x 44 x 66 in	3,050
Level 2	102 x 44 x 66 in	3,100
Level 3	132 x 44 x 66 in	3,275

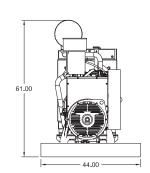
Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load	
OPU	77 dBA	81 dBA	
Level 1	74 dBA	77 dBA	
Level 2	71 dBA	73 dBA	
Level 3	65 dBA	67 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.

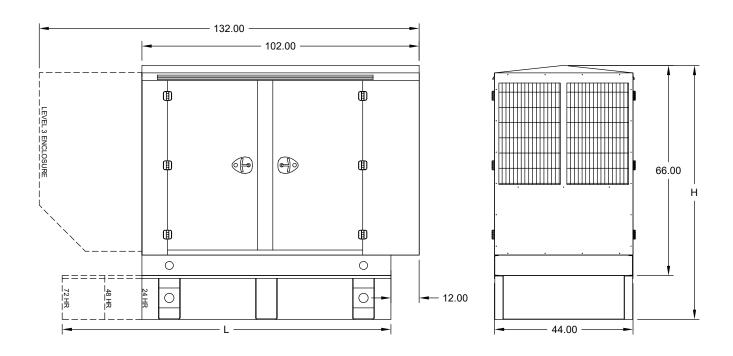
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# Diesel Product Line

## 80 kWe



## **Enclosures & Fuel Tanks**



All enclosure models are 200 MPH wind rating certified 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 250 Gallon	48 Hour 500 Gallon	72 Hour 750 Gallon
L	90.00	120.00	174.00
Н	94.00	102.00	102.00

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.



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Distributed By:

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