

# Diesel Product Line

208-600 Volt

TD1000-01

### 1000 kWe / 900 kWe

## Ratings

0				
	208V	240V	480V	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	741RSL4045	741RSL4045	575RSL4044	741RSS4282
Connection	12 LEAD WYE	12 LEAD DELTA	4 LEAD WYE	4 LEAD WYE
Standby				
kWe	1000	1000	1000	1000
AMPS	3474	3011	1505	1204
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available Fo	or Mobile Applications]			
kWe	900	900	900	900
AMPS	3126	2710	1355 1084	
Temp Rise	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
- 24V Battery System & Cables
- SAE Flywheel & Housing
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connectors
- EPA Certified Tier 2

#### Generator

- ► Brushless Single Bearing
- Automatic Voltage Regulator
- ► ± .25% Voltage Regulation
- 4 Pole, Rotating Field
- 130°C Standby Temperature Rise
- ▶ 105°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

- Microprocessor Based Digital Control
- Base Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Critical Grade Silencer (Loose)
- Flexible Exhaust Connectors
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20°F 9000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- > 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- Standard Colors White / Tan / Gray

### 200-000 VOIT

60 Hz / 1800 RPM

Standby / Prime

# Diesel Product Line

### 1000 kWe / 900 kWe

# BLUE ST R Power Systems Inc.

## Application Data

Engine			
Manufacturer:	MTU	Displacement - Cu. In. (lit):	1943 (31.8)
Model Standby (Prime):	16V2000G85	Bore - in. (cm) x Stroke - in. (cm):	5.12 (13.0) x 5.91 (15.0)
Туре:	4-Cycle	Compression Ratio:	16.0:1
Aspiration:	Turbo Charged, Intercooled	Rated RPM:	1800
Cylinder Arrangement:	16 Cylinder Vee	Max HP Stby (kWm):	1495 (1115)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	1,022 (550)	986 (530)
Gas Volume at Stack Temp: CFM (m³/min)	7,845 (222)	7,420 (210)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	34.1 (8.53)	34.1 (8.53)
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)
Jacket Water Pump Flow Rate: Gpm (lit/min)	220 (833)	220 (833)
Heat Rejection to Jacket Coolant: BTUM (kW)	22,857 (400)	20,286 (355)
Intercooler Pump Flow Rate: Gpm (lit/min)	68.2 (258)	68.2 (258)
Heat Rejection to Intercooler: BTUM (kW)	18,286 (320)	16,571 (290)
Heat Radiated to Ambient: BTUM (kW)	6,216 (110)	5,635 (98.6)
Air Requirements		
Aspirating: CFM (m <sup>3</sup> /min)	3,074 (87.0)	2,968 (84.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	60,883 (1,723)	60,883 (1,723)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Coc	oled Applications
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	71.0 (269)	64.9 (246)
At 75% of Power Rating: gal/hr (lit/hr)	53.7 (203)	49.2 (186)
At 50% of Power Rating: gal/hr (lit/hr)	36.7 (139)	33.4 (126.4)
Fluids Capacity		
Total Oil System: gal (lit)	26.9 (102)	26.9 (102)
Engine Jacket Water Capacity: gal (lit)	34.3 (130)	34.3 (130)
System Coolant Capacity: gal (lit)	56.0 (212)	56.0 (212)

Deration Factors

Rated power available at ambient temperatures to 40°C. At Altitudes to 5906 ft (1800 m).

Consult factory for site conditions above these parameters.

# Diesel Product Line

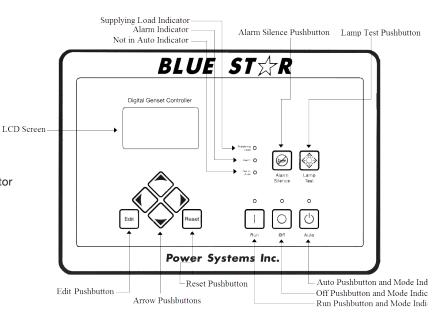
### 1000 kWe / 900 kWe

# BLUE ST R Power Systems Inc.

## 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

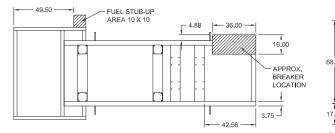


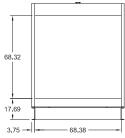
## Weights / Dimensions / Sound Data

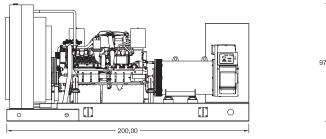
	L x W x H	Weight lbs					
OPU	200 x 76 x 97 in	17300					
Level 1	212 x 106 x 129 in	19500					
Level 2	N/A	N/A					
Level 3	392x 106 x 129 in	22400					

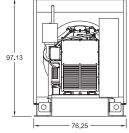
Height measured from bottom of base to exhaust stack.

	No Load	Full Load		
OPU	89 dBA	92 dBA		
Level 1	87 dBA	90 dBA		
Level 2	N/A	N/A		
Level 3	77 dBA	81 dBA		







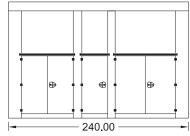


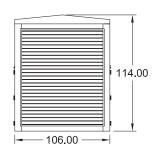
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

### 1000 kWe / 900 kWe

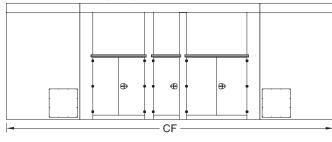
## Optional Enclosures and Fuel Tanks

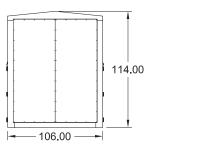
#### Level 1 Enclosure (WPE)

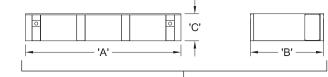




#### Level 3 Enclosure (SAE)







BLUE ST R

**Power Systems Inc.** 

\*Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available). \*\*Level 2 & 3 enclosures are 150 MPH Wind Rated as standard.

\*\*\*Enclosure height does not include unit base or exhaust stack.

ouble Wall	UL 142 Liste	d Fuel Tanks							
	12 Hour (875 Gallon)		24 Hour (1	24 Hour (1750 Gallon)		48 Hour (3500 Gallon)			
	Α	в	С	Α	в	С	Α	в	С
OPU	212.00	106.00	14.00	212.00	106.00	28.00	288.00	106.00	26.00
Level 1	212.00	106.00	14.00	212.00	106.00	28.00	288.00	106.00	26.00
Level 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Level 3	392.00	106.00	8.00	392.00	106.00	14.00	392.00	106.00	26.00

\*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.

\*\*\*Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:



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