

Diesel Product Line

208-600 Volt

TD600-01 / TD600-01P

600 kWe / 550 kWe

Ratings

	208V	240V	480 V	600V	
Phase	3	3	3	3	
PF	0.8	0.8	0.8	0.8	
Hz	60	60	60	60	
Generator Model	573RSL4033	573RSL4033	572RSL4031	572RSS4272	
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE	
Standby					
kWe	600	600	600	600	
AMPS	2084	1806	903	723	
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	
Prime [Only Available For Mobile Applications]					
kWe	550	550	550	550	
AMPS	1911	1656	828	662	
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 6000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- > 2YR / 2000HR Standby Warranty
- IYR / 1500HR Prime Warranty
- Standard Colors White / Tan / Gray

60 Hz / 1800 RPM

Standby / Prime

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600 kWe / 550 kWe

BLUE ST R Power Systems Inc.

Application Data

Engine			
Manufacturer:	MTU	Displacement - Cu. In. (lit):	1282 (21.0)
Model Standby (Prime):	12V1600G80S (12V1600G20S)	Bore - in. (cm) x Stroke - in. (cm):	4.80 (12.2) x 5.90 (15.0)
Туре:	4-Cycle	Compression Ratio:	17.5:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	12 Cylinder Vee	Max HP Stby (kWm):	896 (668)
Exhaust System		Standby	Prime
Gas Temp. (Stack): °F (°C)		797 (425)	777 (414)
Gas Volume at Stack Temp: (CFM (m³/min)	4,662 (132)	4,450 (126)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)		60.2 (15.0)	60.2 (15.0)
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)		137 (517)	137 (517)
Heat Rejection to Coolant: BTUM (kW)		15,354 (269)	13,762 (241)
Heat Rejection to CAC: BTUM (kW)		9,667 (169)	8,530 (149)
Heat Radiated to Ambient: BTUM (kW)		5,123 (89.7)	4,305 (75.3)
Air Requirements			
Aspirating: CFM (m³/min)		1,907 (54.0)	1,865 (52.8)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)		26,700 (756)	26,700 (756)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory For Remote Coole	ed Applications
Fuel Consumption			
At 100% of Power Rating: gal/hr (lit/hr)		40.0 (151)	37.0 (140)
At 75% of Power Rating: gal/hr (lit/hr)		30.2 (114)	28.0 (106)
At 50% of Power Rating: gal/hr (lit/hr)		21.2 (80.3)	19.8 (75)
Fluids Capacity			
Total Oil System: gal (lit)		19.3 (73.1)	19.3 (73.1)
Engine Jacket Water Capacity: gal (lit)		17.2 (65.1)	17.2 (65.1)

28.1 (106)

28.1 (106)

Deration Factors

Rated power available at ambient temperatures to 50°C. Derate 3% per 1640 ft (500 m) above 4265 ft (1300 m). Consult factory for site conditions above these parameters.

TD600-01 / TD600-01P

System Coolant Capacity: gal (lit)

Diesel Product Line

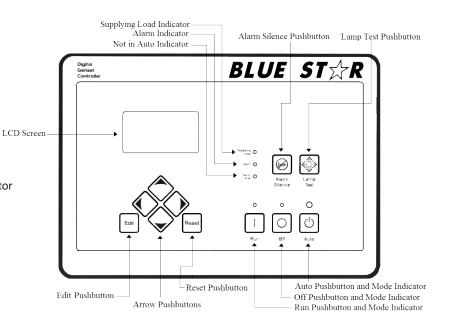
600 kWe / 550 kWe

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

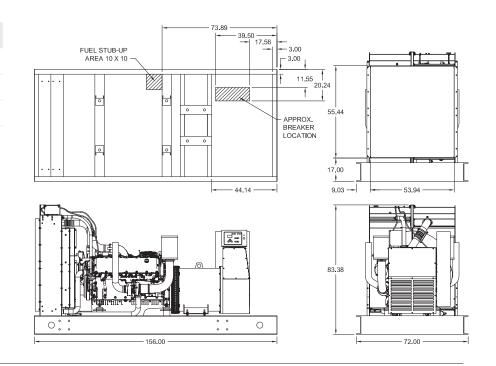


Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	156 x 72 x 84 in	10800
Level 1	156 x 72 x 116 in	11600
Level 2	156 x 72 x 129 in	12200
Level 3	215 x 72 x 118 in	12600

Height measured from bottom of base to exhaust stack.

	No Load	Full Load
OPU	90 dBA	95 dBA
Level 1	85 dBA	90 dBA
Level 2	84 dBA	88 dBA
Level 3	75 dBA	79 dBA



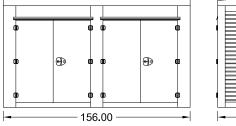
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

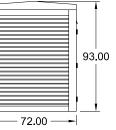
600 kWe / 550 kWe

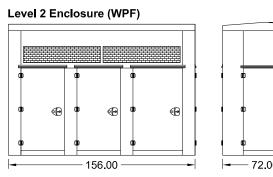


Optional Enclosures and Fuel Tanks

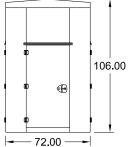
Level 1 Enclosure (WPE)



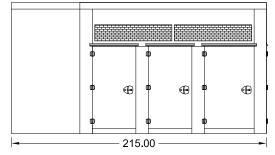


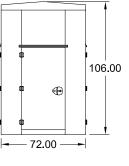


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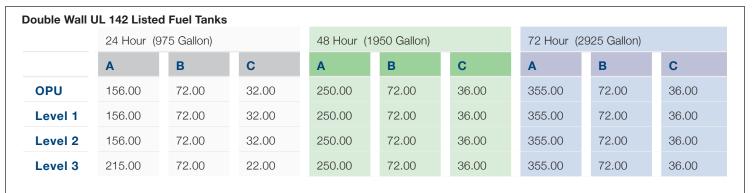
Level 3 Enclosure (SAE)





*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.



*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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'C'

'B'

TD600-01 / TD600-01P Rev1.2 www.bluestarps.com