

Diesel Product Line

TD550-01 / TD550-01P

550 kWe / 500 kWe

Ratings

	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	572RSL4031	572RSL4031	572RSL4029	572RSS4272
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby				
kWe	550	550	550	550
AMPS	1911	1656	828	662
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	500	500	500	500
AMPS	1736	1505	753	602
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
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connector
- ▶ EPA Certified Tier 2

Listing Certifications

- ▶ UL 2200 Listed
- ► cUL Listed
- CSA Certified
- Seismic Certified to IBC 2012

Generator

- Brushless Single Bearing
- ► Automatic Voltage Regulator
- ▶ ± .25% 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

- Microprocessor Based Digital Control
- ► Interface Connection Box
- ► Control Panel Mounted in NEMA 12 Enclosure
- ► Base Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Critical Grade Silencer Mounted
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20°F 6000W 240V 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

208-600 Volt

60 Hz / 1800 RPM

Standby / Prime

550 kWe / 500 kWe

BLUE ST R Power Systems Inc.

Application Data

Engine			
Manufacturer:	MTU	Displacement - Cu. In. (lit):	1282 (21.0)
Model Standby (Prime):	12V1600G70S (12V1600G10S)	Bore - in. (cm) x Stroke - in. (cm):	4.72 (12.0) x 5.91 (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):	822 (613)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	775 (413)	754 (401)
Gas Volume at Stack Temp: CFM (m³/min)	4,450 (126)	4,026 (114)
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. H2O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	137 (517)	137 (517)
Heat Rejection to Coolant: BTUM (kW)	13,762 (241)	12,681 (223)
Heat Rejection to CAC: BTUM (kW)	8,530 (149)	7,051 (123)
Heat Radiated to Ambient: BTUM (kW)	4,539 (79.4)	4,127 (72.2)
Air Requirements		
Aspirating: CFM (m³/min)	1,844 (52.2)	1,653 (46.8)
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	Cooled Applications
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	37.1 (140)	35.0 (132)
At 75% of Power Rating: gal/hr (lit/hr)	28.0 (106)	26.9 (102)
At 50% of Power Rating: gal/hr (lit/hr)	19.9 (75.3)	18.6 (70.4)
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)
System Coolant Capacity: gal (lit)	28.1 (106)	28.1 (106)

Deration Factors

Rated power available at ambient temperatures to 50°C. Derate 3% per 1,640 ft (500 m) above 6,560 ft (2,000 m).

Consult factory for site conditions above these parameters.

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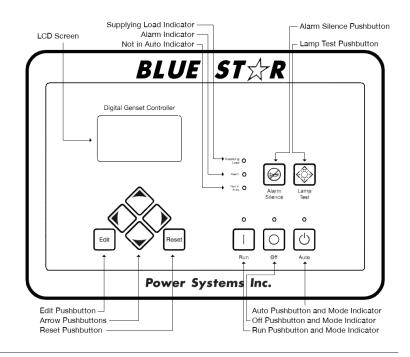
550 kWe / 500 kWe

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

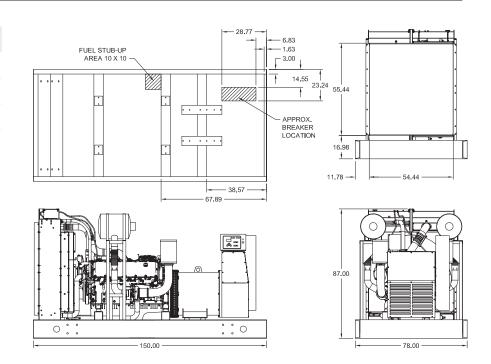


Weights / Dimensions / Sound Data

	L x W x H	Weight Ibs
OPU	150 x 78 x 87 in	10,600
Level 1	200 x 78 x 110 in	12,300
Level 2	200 x 78 x 110 in	12,400
Level 3	255 x 78 x 110 in	12,875

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

	No Load	Full Load
OPU	91 dBA	94 dBA
Level 1	89 dBA	91 dBA
Level 2	84 dBA	87 dBA
Level 3	74 dBA	77 dBA



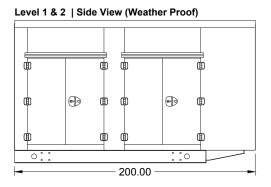
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

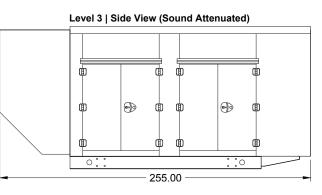
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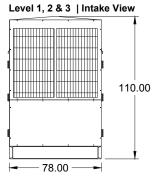
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Enclosures



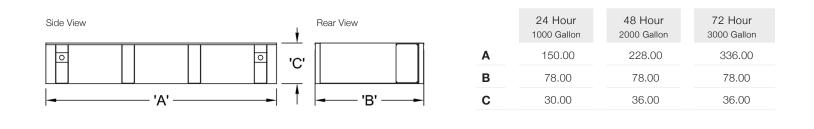




All enclosures are 150 MPH Wind Rated.

Level 2 & 3 enclosures include sound attenuation foam. Level 3 enclosure includes frontal sound & exhaust hood. *Enclosure height does not include exhaust stack.

Double Wall UL 142 Listed Fuel Tanks



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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Blue Star Power Systems, Inc.