BLUE ST R Power Systems Inc.

Diesel Product Line

208-4160 Volt

MD2000-01 60 Hz / 1800 RPM

2000 kWe Standby

Ratings

	208V	240V	480V	600V	4160V
Phase	3	3	3	3	3
PF	0.8	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	Consult Factory	Consult Factory	S7L1D-G	S7L1D-G	S9M1D-B4
Connection	4 LEAD WYE	4 LEAD DELTA	4 LEAD WYE	4 LEAD WYE	6 LEAD WYE
kWe	2000	2000	2000	2000	2000
AMPS	6948	6021	3011	2408	347
Temp Rise	Consult Factory	Consult Factory	125°C / 40°C	125°C / 40°C	125°C / 40°C

Standard Equipment

Engine

- Radiator Cooled Unit Mounted (50°C)
- Radiator Duct Flange (OPU Only)
- 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)
- Critical Grade Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 2

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 0.50% Voltage Regulation
- 4 Pole, Rotating Field
- 125°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
- UL 2200 & cUL Listed through 600VAC
- CSA Certified through 600VAC
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel
 Mounted in NEMA 12 Enclosure
- Base Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater (Qty 2) -20°F 9000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

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Diesel Product Line

2000 kWe



182 (689)

Application Data

System Coolant Capacity: gal (lit)

Consult factory for site conditions above these parameters.

Deration Factors: Rated Power is available up to 3280 ft (1000 m) at ambient temperatures to 104°F (40°C).

Application D	ata		
Engine			
Manufacturer:	Mitsubishi	Displacement - Cu. In. (lit):	3,989 (65.4)
Model:	S16R-Y2PTAW2-1	Bore - in. (cm) x Stroke - in. (cm):	6.69 (17.0) x 7.09 (18.0)
Type:	4-Cycle	Compression Ratio:	14.0:1
Aspiration:	Turbo Charged, H2O/Air Intercooled	Rated RPM:	1800
Cylinder Arrangement:	16 Cylinder Vee	Max HP Stby (kWm):	2,923 (2,181)
Exhaust System			Standby
Gas Temp. (Stack): °F (°C)			979 (526)
Gas Volume at Stack Temp:	CFM (m³/min)		19,209 (544)
Maximum Allowable Exhaust	Restriction: in. H ₂ O (kPa)		23.6 (5.90)
Cooling System			
Ambient Capacity of Radiato	r: °F (°C)		122 (50.0)
Maximum Allowable Static P	ressure on Rad. Exhaust: in. H ₂ O (kPa)		0.50 (0.12)
Jacket Water Pump Flow Ra	te: GPM (lit/min)		489 (1,851)
Intercooler Pump Flow Rate:	GPM (lit/min)		243 (920)
Heat Rejection to Jacket Cod	plant: BTUM (kW)		44,374 (777)
Heat Rejection to Intercooler	: BTUM (kW)		44,374 (777)
Heat Radiated to Ambient: B	TUM (kW)		39,161 (685)
Air Requirements			
Aspirating: CFM (m³/min)			7,274 (206)
Air Flow Required for Rad. C	ooled Unit: CFM (m³/min)		86,078 (2,436)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory Fo	or Remote Cooled Applications
Fuel Consumption			
At 100% of Power Rating: ga	al/hr (lit/hr)		155 (587)
At 75% of Power Rating: gal/hr (lit/hr)		115 (435)	
At 50% of Power Rating: gal,	/hr (lit/hr)		79.2 (300)
Fluids Capacity			
Total Oil System: gal (lit)			60.8 (230)
Engine Jacket Water Capacit	ty: gal (lit)		44.9 (170)

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Diesel Product Line

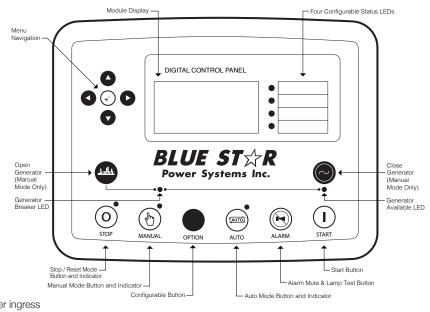
2000 kWe



DCP7310 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 DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- NFPA 110 Level 1 Compatible

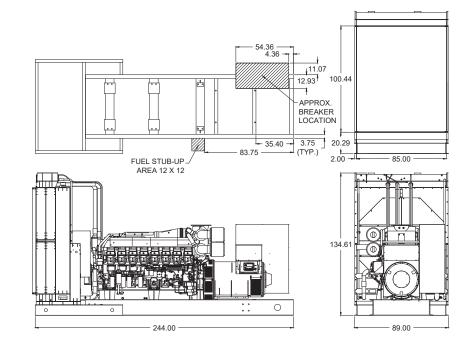


Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	244 x 89 x 135 in	37,725
Level 1	282 x 110 x 145 in	41,750
Level 2	282 x 110 x 145 in	41,950
Level 3	378 x 110 x 145 in	44,350

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

	No Load	Full Load	
OPU	96 dBA	98 dBA	
Level 1	88 dBA	91 dBA	
Level 2	85 dBA	87 dBA	
Level 3	82 dBA	84 dBA	



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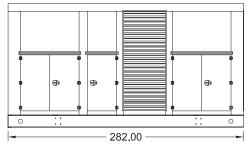
Diesel Product Line

2000 kWe

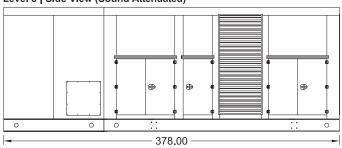


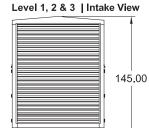
Enclosures

Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)





110.00

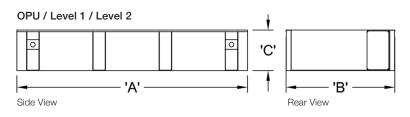
- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

Α

В

С

Double Wall UL 142 Listed Fuel Tanks



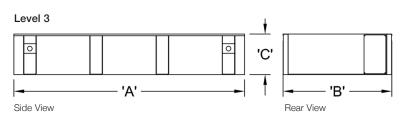
	1925 Gallon	3650 Gallon	7700 Gallon
Α	282.00	312.00	576.00
В	110.00	110.00	110.00
С	22.00	36.00	36.00

24 Hour

2950 Callon

12 Hour

1025 Callon



12 Hour 1925 Gallon	24 Hour 3850 Gallon	48 Hour 7700 Gallon
378.00	378.00	576.00
110.00	110.00	110.00
16.00	28.00	36.00

American Owned

48 Hour

7700 Callon



American Made

Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures and fuel tanks are based on the standard unit configuration. Any requested deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.

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