# BLUE ST R Power Systems Inc.

Diesel Product Line

208-4160 Volt

MD800-01 60 Hz / 1800 RPM

800 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	S6L1D-D	S6L1D-D	S6L1D-C	S6L1D-C	MVWI734E
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE	6 LEAD WYE
kWe	800	800	800	800	800
AMPS	2779	2408	1204	963	139
Temp Rise	125°C / 40°C	125°C / 40°C	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
- 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

#### 800 kWe



# **Application Data**

Engine			
Manufacturer:	Mitsubishi	Displacement - Cu. In. (lit):	2,071 (33.9)
Model:	S12A2-Y2PTAW-2	Bore - in. (cm) x Stroke - in. (cm):	5.91 (15.0) x 6.30 (16.0)
Туре:	4-Cycle	Compression Ratio:	15.3:1
Aspiration:	Turbo Charged, H2O/Air Intercooled	Rated RPM:	1800
Cylinder Arrangement:	12 Cylinder Inline	Max HP Stby (kWm):	1,207 (900)
Exhaust System			Standby
Gas Temp. (Stack): °F (°C)			883 (473)
Gas Volume at Stack Temp: CFI	M (m³/min)		8,192 (232)
Maximum Allowable Exhaust Re	estriction: in. H <sub>2</sub> O (kPa)		23.6 (5.90)
Cooling System			
Ambient Capacity of Radiator: °	F (°C)		122 (50.0)
Maximum Allowable Static Pres	sure on Rad. Exhaust: in. H <sub>2</sub> O (kPa)		0.50 (0.12)
Jacket Water Pump Flow Rate:	GPM (lit/min)		291 (1,102)
Intercooler Pump Flow Rate: GF	PM (lit/min)		124 (470)
Heat Rejection to Jacket Coolar	nt: BTUM (kW)		20,418 (357)
Heat Rejection to Intercooler: B	TUM (kW)		16,043 (281)
Heat Radiated to Ambient: BTU	M (kW)		16,295 (285)
Air Requirements			
Aspirating: CFM (m³/min)			3,107 (87.9)
Air Flow Required for Rad. Cool	ed Unit: CFM (m³/min)		37,314 (1,056)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory Fo	r Remote Cooled Applications
Fuel Consumption			
At 100% of Power Rating: gal/h	r (lit/hr)		67.4 (255)
At 75% of Power Rating: ft3/hr	(m3/hr)		46.1 (175)
At 50% of Power Rating: ft3/hr (m3/hr)			31.3 (119)
Fluids Capacity			
Total Oil System: gal (lit)			31.7 (120)
Engine Jacket Water Capacity:	gal (lit)		26.4 (100)
System Coolant Capacity: gal (li	t)		107.3 (406)

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

Consult factory for site conditions above these parameters.

# Diesel Product Line

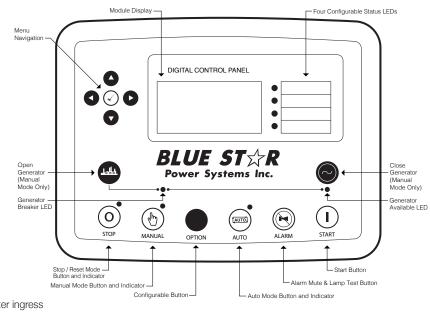
#### 800 kWe



## 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

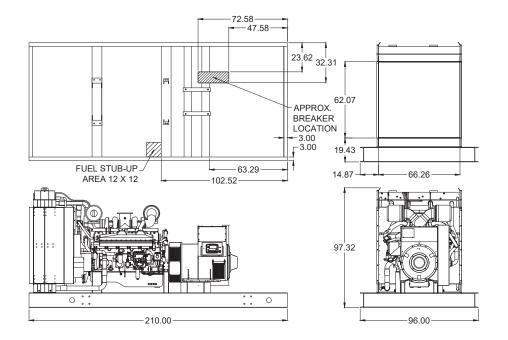


# Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	210 x 96 x 98 in	18,750
Level 1	210 x 96 x 108 in	21,200
Level 2	210 x 96 x 108 in	21,325
Level 3	285 x 96 x 108 in	22,600

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

	No Load	Full Load
OPU	86 dBA	88 dBA
Level 1	80 dBA	83 dBA
Level 2	78 dBA	80 dBA
Level 3	74 dBA	76 dBA



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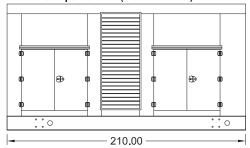
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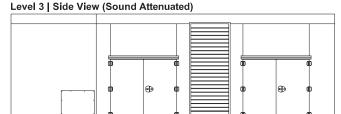
#### 800 kWe

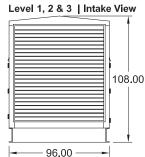


### **Enclosures**

Level 1 & 2 | Side View (Weather Proof)







- 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 C

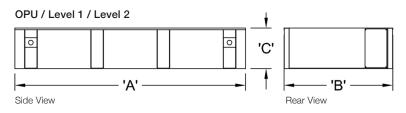
12 Hour

285.00

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## Double Wall UL 142 Listed Fuel Tanks



Level 3		+	
0		'C'	
	'A'		'B' —
Side View			Rear View

	12 Hour 900 Gallon	24 Hour 1800 Gallon	48 Hour 3600 Gallon
Α	210.00	210.00	348.00
В	96.00	96.00	96.00
С	16.00	30.00	36.00

0

900 Gallon	1800 Gallon	3600 Gallon
285.00	285.00	348.00
96.00	96.00	96.00
12.00	22.00	36.00

24 Hour

48 Hour



American Made

#### - All specification sheet dimensions are represented in inches.

Notes

- 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.

#### Blue Star Power Systems, Inc.

2250 Carlson Drive North Mankato, Minnesota 56003

Phone + 1 507 345 1776 bluestarps.com

quote.bluestarps.com

sales@bluestarps.com

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