

POWERDAK

POWER PRODUCTS, LLC

Diesel Product Line

BSMD1250KWSP

208-600 Volt **60 Hz / 1800 RPM**

Standby / Prime/Mobile

250 kWe / 1150 kWe

Ratings

	208V	240V	480V	600 V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	Consult Factory	Consult Factory	742RSL4048	743RSS4288
Connection	4 LEAD WYE	4 LEAD DELTA	4 LEAD WYE	4 LEAD WYE
Standby				
kWe	1250	1250	1250	1250
AMPS	4342	3763	1881	1505
Temp Rise	Consult Factory	Consult Factory	130°C / 27°C	130°C / 27°C
Prime				
kWe	1150	1150	1150	1150
AMPS	3995	3462	1731	1385
Temp Rise	Consult Factory	Consult Factory	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 Loose
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water 2 Qty: 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

BSMD1250KWSP 250kWe/1150kWe

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Application Data

Engine			
Manufacturer:	Mitsubishi	Displacement - Cu. In. (lit):	2,992 (49.0)
Model:	S12R-Y2PTAW-1	Bore - in. (cm) x Stroke - in. (cm):	6.69 (17.0) x 7.09 (18.0)
Type:	4-Cycle	Compression Ratio:	14.5:1
Aspiration:	Turbo Charged, H ₂ O/Air Intercooled	Rated RPM:	1800
Cylinder Arrangement:	12 Cylinder Vee	Max HP Stby (kWm):	1,881 (1,403)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	927 (497)	890 (477)
Gas Volume at Stack Temp: CFM (m³/min)	12,570 (356)	11,299 (320)
Maximum Allowable Exhaust Restriction: in. H ₂ O (kPa)	23.6 (5.90)	23.6 (5.90)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.50 (0.12)	0.50 (0.12)
Jacket Water Pump Flow Rate: GPM (lit/min)	489 (1,851)	489 (1,851)
Intercooler Pump Flow Rate: GPM (lit/min)	89.8 (340)	89.8 (340)
Heat Rejection to Jacket Coolant: BTUM (kW)	29,045 (508)	26,111 (457)
Heat Rejection to Intercooler: BTUM (kW)	29,045 (508)	26,111 (457)
Heat Radiated to Ambient: BTUM (kW)	8,182 (143)	7,528 (132)
Air Requirements		
Aspirating: CFM (m³/min)	4,767 (135)	4,273 (121)
Air Flow Required for Rad.Cooled Unit: CFM (m³/min)	62,756 (1,776)	62,756 (1,776)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remot	e Cooled Applications
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	103 (392)	91.0 (344)
At 75% of Power Rating: gal/hr (lit/hr)	75.1 (284)	68.4 (259)
At 50% of Power Rating: gal/hr (lit/hr)	51.0 (193)	46.4 (176)
Fluids Capacity		
Total Oil System: gal (lit)	39.6 (150)	39.6 (150)
Engine Jacket Water Capacity w/Intercooler: gal (lit)	34.3 (130)	34.3 (130)
System Coolant Capacity: gal (lit)	140.6 (532)	140.6 (532)
Domition Footors		

Consult factory for site conditions above these parameters.

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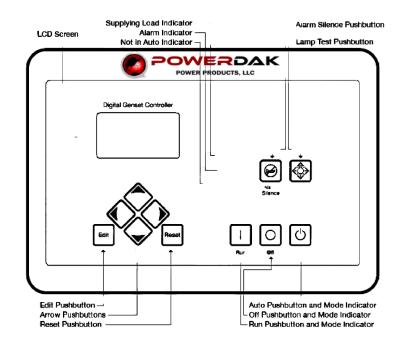




DGC-2020 Control Panel

Standard Features

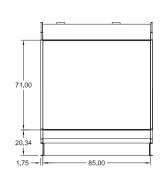
- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Compatible



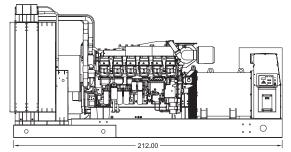
Weights / Dimensions / Sound Data

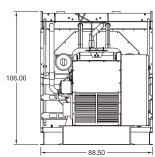
	LxWxH	Weight lbs
OPU	220 x 95 x 112 in	27,375
Level 1	252 x 106 x 129 in	32,450
Level 2	252 x 106 x 129 in	32,675
Level 3	342 x 106 x 129 in	35,000

В	REAKER LOCATION —	
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	No Load	Full Load
OPU	89 dBA	91 dBA
Level 1	83 dBA	85 dBA
Level 2	81 dBA	83 dBA
Level 3	77 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.

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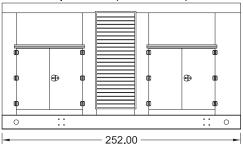
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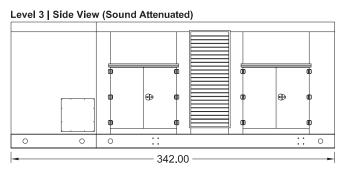


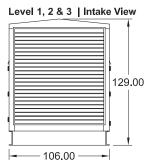


Enclosures

Level 1 & 2 | Side View (Weather Proof)





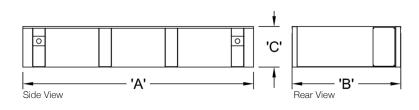


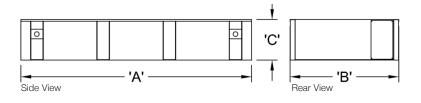
All enclosures are 150 MPH Wind Rated.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

Double Wall UL 142 Listed Fuel Tanks





	OP	OPU / Level 1 / Level 2			
	12 Hour 1250 Gallon	24 Hour 2500 Gallon	48 Hour 5000 Gallon		
Α	252.00	252.00	410.00		
В	106.00	106.00	106.00		
С	18.00	32.00	36.00		

	Level 3			
	12 Hour 1250 Gallon	24 Hour 2500 Gallon	48 Hour 5000 Gallon	
Α	342.00	342.00	410.00	
В	106.00	106.00	106.00	
С	12.00	24.00	36.00	

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. Materials and specifications subject to change without notice.

Powerdak Power Products - 3350 Jet Drive, Rapid City, South Dakota 57703 - 605.341.6160 Ext 1 - Fax 605.718.9998 e-mail: dave@dakgenerator.com



^{*}Enclosure height does not include exhaust system.