

POWERDAK

POWER PRODUCTS, LLC

Diesel Product Line

208-600 Volt

60 Hz / 1800 RPM

Standby / Prime

BSVD600KWSP

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

- ► Radiator Cooled Unit Mounted (55°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 5000W 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

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Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.12)
Model:	TWD1643GE	Bore - in. (cm) x Stroke - in. (cm):	5.70 (14.4) x 6.50 (16.5)
Type:	4-Cycle	Compression Ratio:	16.5:1
Aspiration:	Turbo Charged, H ₂ O to Air CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	917 (674)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	862 (461)	792 (422)
Gas Volume at Stack Temp: CFM (m³/min)	4,594 (130)	4,202 (119)
Maximum Allowable Exhaust Restriction: in. H ₂ O (kPa)	40.2 (10.0)	40.2 (10.0)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	95.4 (361)	95.4 (361)
Heat Rejection to Coolant: BTUM (kW)	15,355 (270)	13,990 (246)
Heat Rejection to CAC: BTUM (kW)	7,677 (135)	6,881 (121)
Heat Radiated to Ambient: BTUM (kW)	3,928 (68.7)	3,600 (63.0)
Air Requirements		
Aspirating: CFM (m³/min)	1,937 (54.8)	1,874 (53.0)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	31,802 (900)	31,802 (900)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote	e Cooled Applications
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	40.8 (154.4)	36.7 (138.9)
At 75% of Power Rating: gal/hr (lit/hr)	29.7 (112.4)	26.9 (101.8)
At 50% of Power Rating: gal/hr (lit/hr)	20.0 (75.7)	18.3 (69.3)
Fluids Capacity		
Total Oil System: gal (lit)	12.7 (48.0)	12.7 (48.0)
Engine Jacket Water Capacity: gal (lit)	8.70 (33.0)	8.70 (33.0)
System Coolant Capacity: gal (lit)	25.1 (95.0)	25.1 (95.0)

Deration Factors

Rated Power is available up to 4,920 ft (1,500 m) at ambient temperatures to 122°F (50°C). Consult factory for site conditions above these parameters.

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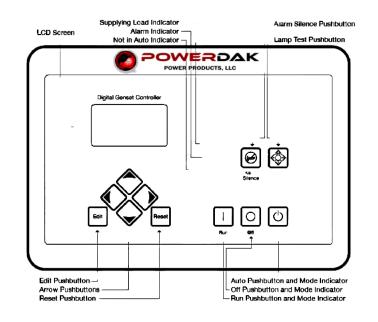




DGC-2020 Control Panel

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 Level 1 Compatible

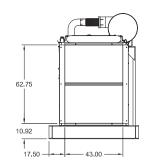


Weights / Dimensions / Sound Data

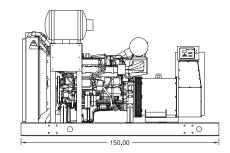
	LxWxH	Weight lbs
OPU	150 x 78 x 100 in	10,275
Level 1	200 x 78 x 110 in	12,100
Level 2	200 x 78 x 110 in	12,200
Level 3	255 x 78 x 110 in	12,700

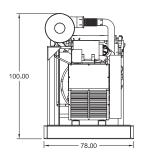
Please allow 6-12 inches for height of exhaust stack.

30.53
14.56 1 23.24 APPROX. BREAKER LOCATION
50.00 - 39.48 -
─ FUEL STUB-UP
AREA 10 X 10



	No Load	Full Load
OPU	92 dBA	94 dBA
Level 1	87 dBA	90 dBA
Level 2	82 dBA	84 dBA
Level 3	74 dBA	76 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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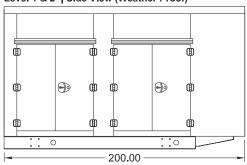
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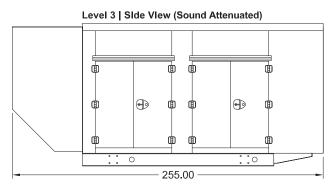


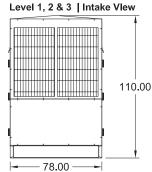


Enclosures

Level 1 & 2 | Side View (Weather Proof)



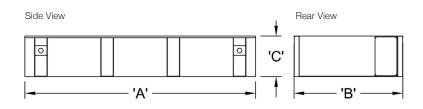




All enclosures are 150 MPH Wind Rated.
Level 2 & 3 enclosures include sound attenuation foam.
Level 3 enclosure includes frontal sound & exhaust hood.

*Enclosure height does not include exhaust stack.

Double Wall UL 142 Listed Fuel Tanks



	24 Hour 1000 Gallon	48 Hour 2000 Gallon	72 Hour 3000 Gallon
Α	150.00	228.00	336.00
В	78.00	78.00	78.00
С	30.00	36.00	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

