

POWERDAK

POWER PRODUCTS, LLC

Diesel Product Line

208-600 Volt

BSVD550KWSPT4

60 Hz / 1800 RPM

550 kWe / 500 kWe

Standby / Prime

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	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				
kWe	500	500	500	500
AMPS	1737	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 (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 4 Final

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
- ▶ SCR Catalyst / Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 5000W 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

Diesel Product Line

BSVD550KWSPT4 550 kWe / 500 kWe





Application Data

Engine			
Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.12)
Model:	TWD1672GE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.50 (16.5)
Type:	4-Cycle	Compression Ratio:	16.8:1
Aspiration:	Turbo Charged, H ₂ O to Air CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	836 (615)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	831 (444)	793 (423)
Gas Volume at Stack Temp: CFM (m³/min)	4,347 (123)	4,025 (114)
Maximum Allowable Exhaust Restriction (Post SCR Cat.): in. H ₂ O (kPa)	40.0 (10.0)	40.0 (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)	95.1 (360)	95.1 (360)
Heat Rejection to Coolant: BTUM (kW)	12,682 (223)	11,544 (203)
Heat Rejection to CAC: BTUM (kW)	11,715 (206)	10,635 (187)
Heat Radiated to Ambient: BTUM (kW)	4,253 (74.4)	3,842 (67.2)
Air Requirements		
Aspirating: CFM (m³/min)	1,646 (46.6)	1,603 (45.4)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	29,894 (846)	29,894 (846)
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)	39.9 (151.0)	35.9 (136.0)
At 75% of Power Rating: gal/hr (lit/hr)	28.8 (109.0)	26.0 (98.0)
At 50% of Power Rating: gal/hr (lit/hr)	19.1 (72.0)	17.5 (66.0)
DEF Consumption (% of fuel consumption)	± 6.00%	± 6.00%
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)	15.9 (60.0)	15.9 (60.0)
DEF Tank Capacity: gal (lit)	18.5 (70.0)	18.5 (70.0)

Deration Factors

Rated Power is available up to 4,921 Ft (1500m) at ambient temperatures to $122^{\circ}F$ (50°C) standby and prime. Consult factory for site conditions above these parameters.

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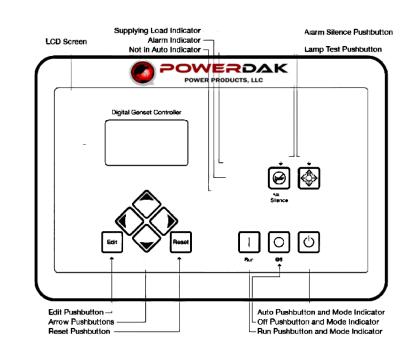




DGC-2020 Control Panel

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

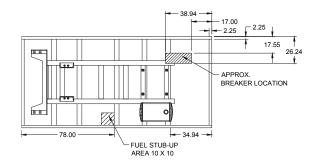


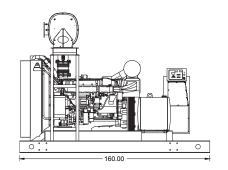
Weights / Dimensions / Sound Data

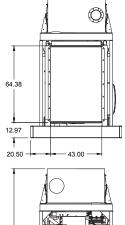
	LxWxH	Weight Ibs
OPU	160 x 84 x 118 in	12,525
Level 1	198 x 84 x 122 in	14,450
Level 2	198 x 84 x 122 in	14,525
Level 3	252 x 84 x 122 in	15,175

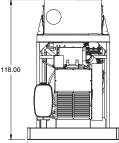
Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load
OPU	90 dBA	93 dBA
Level 1	85 dBA	88 dBA
Level 2	81 dBA	83 dBA
Level 3	73 dBA	75 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.

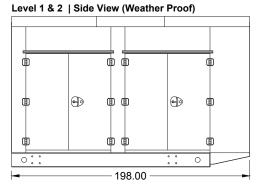
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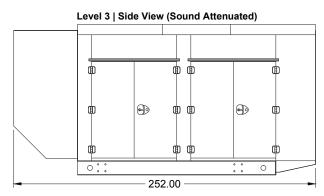
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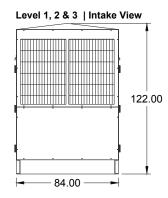




Enclosures





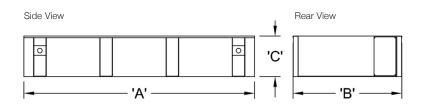


All enclosures are 150 MPH Wind Rated.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

Double Wall UL 142 Listed Fuel Tanks



	24 Hour 1000 Gallon	48 Hour 2000 Gallon	72 Hour 3000 Gallon
Α	160.00	204.00	294.00
В	84.00	84.00	84.00
С	24.00	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.

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