



POWERDAK

POWER PRODUCTS, LLC

Gaseous Product Line

208-600 Volt

BSNG150KWSP

60 Hz / 1800 RPM

150 kWe / 125 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	431CSL6206	431CSL6202	431CSL6202	431CSL6202	431PSL6240
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe Nat (LP)	150 (95)	150 (95)	150 (95)	150 (95)	150 (95)
AMPS Nat (LP)	625 (396)	521 (330)	452 (286)	226 (143)	181 (114)
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime					
kWe Nat (LP)	125 (NA)	125 (NA)	125 (NA)	125 (NA)	125 (NA)
AMPS Nat (LP)	521 (NA)	434 (NA)	376 (NA)	188 (NA)	151 (NA)
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	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
- ▶ MasterTrak Remote Monitoring System

Listing Certifications

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ▶ CSA Certified
- ▶ Seismic Certified to IBC 2012

Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1% 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 - Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Catalyst / Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ▶ Jacket Water Heater -20°F 2500W 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

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Application Data

Engine					
Manufacturer:		Power Solutions International		Displacement - Cu. In. (lit):	492 (8.10)
Model:		D081TIC		Bore - in. (cm) x Stroke - in. (cm):	4.37 (11.1) x 5.47 (13.9)
Type:		4-Cycle		Compression Ratio:	10.5 : 1
Aspiration:		Turbo Charged, CAC		Rated RPM:	1800
Cylinder Arrangement:		6 Cylinder Inline		Max HP Stby (kWm):	239 (178)
Exhaust System				Standby	Prime
Gas Temp. (Stack): °F (°C)				1,350 (732)	1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)				1,129 (31.9)	941 (26.6)
Maximum Allowable Exhaust Restriction: in. H₂O (kPa)				40.8 (10.2)	40.8 (10.2)
Cooling System					
Ambient Capacity of Radiator: °F (°C)				122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H₂O (kPa)				0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)				63.0 (238)	63.0 (238)
Heat Rejection to Coolant: BTUM (kW)				9,357 (163)	7,798 (136)
Heat Rejection to CAC: BTUM (kW)				760 (13.3)	633 (11.1)
Heat Radiated to Ambient: BTUM (kW)				2,348 (41.1)	1,957 (34.2)
Air Requirements					
Aspirating: CFM (m³/min)				355 (10.0)	296 (8.37)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)				12,500 (354)	12,500 (354)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)				Consult Factory For Remote Cooled Applications	
Fuel Consumption		Standby		Prime	
		Natural Gas	LP	Natural Gas	LP
At 100% of Power Rating: ft3/hr (m3/hr)		1,539 (43.6)	517 (14.7)	1,283 (36.3)	N/A
At 75% of Power Rating: ft3/hr (m3/hr)		1,191 (33.7)	390 (11.1)	993 (28.1)	N/A
At 50% of Power Rating: ft3/hr (m3/hr)		845 (23.9)	338 (9.57)	704 (19.9)	N/A
Fuel Inlet Size: NPT		1.50"		1.50"	
Fuel Pressure Required: in. H20 (kPa)		7.00 - 11.0 (1.75 - 2.75)		7.00 - 11.0 (1.75 - 2.75)	
Fluids Capacity					
Total Oil System: gal (lit)					1.40 (5.30)
Engine Jacket Water Capacity: gal (lit)					2.00 (7.60)
System Coolant Capacity: gal (lit)					6.00 (22.7)

All calculations based on natural gas fuel.

Deration Factors: Temperature: Derate 1.5% Per 10°F Over 77°F Air Inlet Temperature | Altitude: Derate 2.5% Per 1,000 ft Over 1,200 ft

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150 kWe / 125 kWe

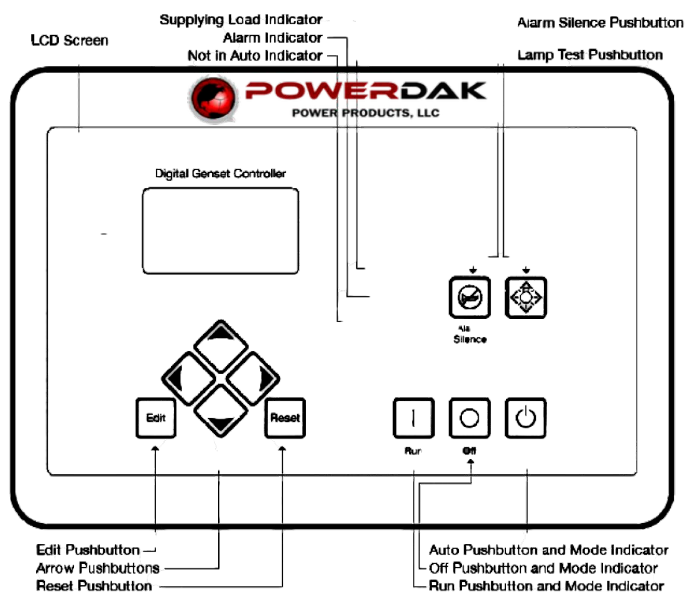


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DGC-2020 Control Panel

Standard Features

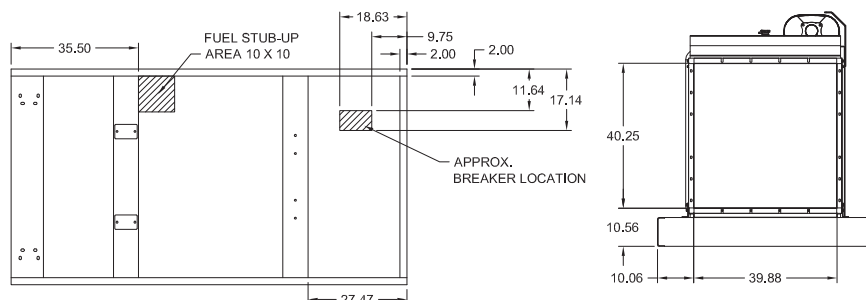
- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs (7 standard)
- ▶ UL Recognized, CSA Certified, CE Approved
- ▶ Event Recording
- ▶ IP 54 Front Panel Rating with Integrated Gasket
- ▶ NFPA 110 Level 1 Compatible



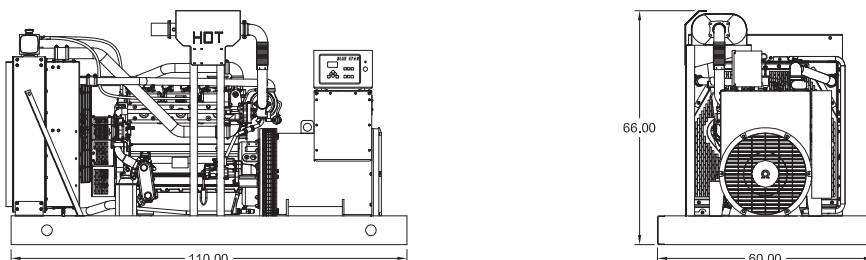
Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	110 x 60 x 66 in	5,150
Level 1	134 x 60 x 80 in	6,075
Level 2	134 x 60 x 80 in	6,125
Level 3	174 x 60 x 80 in	6,400

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



	No Load	Full Load
OPU	80 dBA	82 dBA
Level 1	77 dBA	79 dBA
Level 2	75 dBA	76 dBA
Level 3	68 dBA	70 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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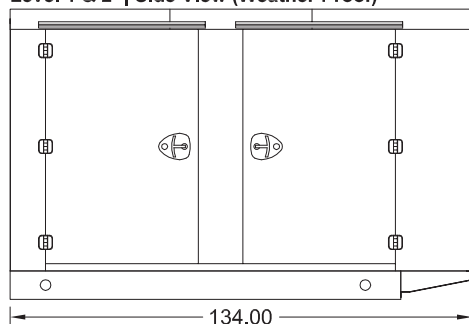
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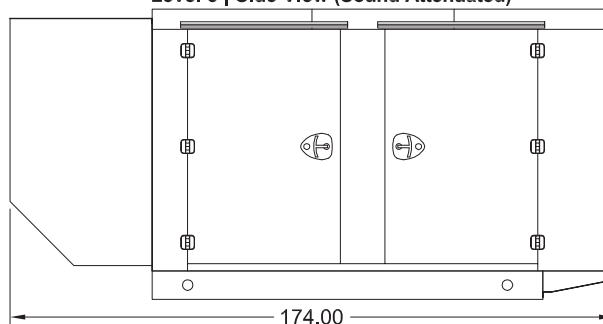
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Enclosures

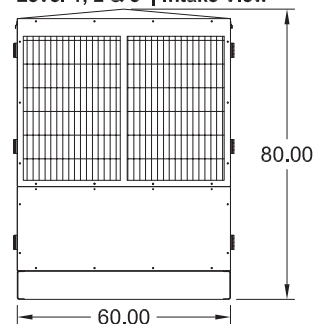
Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)



Level 1, 2 & 3 | Intake View



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.

All specification sheet dimensions are represented in inches. Materials and specifications subject to change without notice.

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American Owned



American Made