

Gaseous Product Line



POWERDAK

POWER PRODUCTS, LLC

BSNG350KWPS
350 kWe / 300 kWe

Application Data

Engine

| | | | |
|-----------------------|-------------------------------|--------------------------------------|---------------------------|
| Manufacturer: | Power Solutions International | Displacement - Cu. In. (lit): | 1115 (18.3) |
| Model: | D183TIC | Bore - in. (cm) x Stroke - in. (cm): | 5.04 (12.8) x 5.59 (14.2) |
| Type: | 4-Cycle | Compression Ratio: | 10.5 : 1 |
| Aspiration: | Turbo Charged, CAC | Rated RPM: | 1800 |
| Cylinder Arrangement: | 10 Cylinder Vee | Max HP Stby (kWm): | 536 (400) |

Exhaust System

| | Standby | Prime |
|---|--------------|--------------|
| Gas Temp. (Stack): °F (°C) | 1,350 (732) | 1,350 (732) |
| Gas Volume at Stack Temp: CFM (m³/min) | 2,366 (67.0) | 2,028 (57.4) |
| Maximum Allowable Exhaust Restriction: in. H ₂ O (kPa) | 40.8 (10.2) | 40.8 (10.2) |

Cooling System

| | Standby | Prime |
|---|--------------|--------------|
| 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) |
| Water Pump Flow Rate: GPM (lit/min) | 174 (659) | 174 (659) |
| Heat Rejection to Coolant: BTUM (kW) | 20,784 (364) | 17,815 (312) |
| Heat Rejection to CAC: BTUM (kW) | 4,120 (72.1) | 3,531 (61.8) |
| Heat Radiated to Ambient: BTUM (kW) | 3,486 (61.0) | 2,988 (52.3) |

Air Requirements

| | | |
|---|--|----------------|
| Aspirating: CFM (m³/min) | 788 (22.0) | 675 (19.1) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 36,000 (1,019) | 36,000 (1,019) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | Consult Factory For Remote Cooled Applications | |

| | Standby | | Prime | |
|---|---------------------------|--------------|---------------------------|-----|
| | Natural Gas | LP | Natural Gas | LP |
| At 100% of Power Rating: ft ³ /hr (m ³ /hr) | 3,499 (99.0) | 1,400 (39.6) | 2,999 (84.9) | N/A |
| At 75% of Power Rating: ft ³ /hr (m ³ /hr) | 2,727 (77.2) | 1091 (30.7) | 2,337 (66.1) | N/A |
| At 50% of Power Rating: ft ³ /hr (m ³ /hr) | 1,914 (54.2) | 766 (21.7) | 1,640 (46.4) | N/A |
| Fuel Inlet Size: NPT | 3.00" | | 3.00" | |
| Fuel Pressure Required: in. H ₂ O (kPa) | 7.00 - 11.0 (1.75 - 2.75) | | 7.00 - 11.0 (1.75 - 2.75) | |

Fluids Capacity

| | |
|---|-------------|
| Total Oil System: gal (lit) | 9.25 (35.0) |
| Engine Jacket Water Capacity: gal (lit) | 13.2 (50.0) |
| System Coolant Capacity: gal (lit) | 56.0 (212) |

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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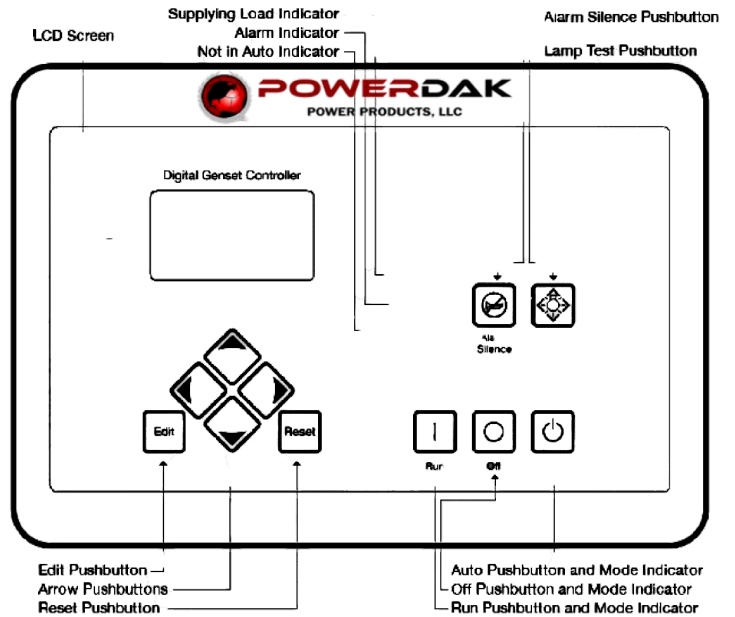
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DGC-2020 Control Panel

Standard Features

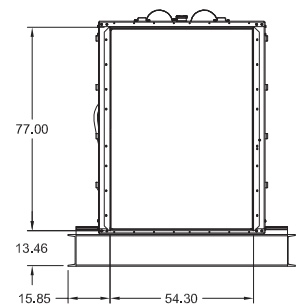
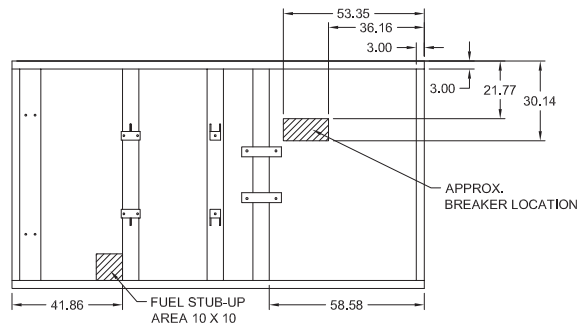
- ▶ Digital Metering
- ▶ Engine Parameters
- ▶ Generator Protection Functions
- ▶ Engine Protection
- ▶ CAN Bus ECU Communications
- ▶ Windows-Based Software
- ▶ Multilingual Capability
- ▶ Remote Communications to RDP-110 Remote Annunciator
- ▶ 16 Programmable Contact Inputs
- ▶ Up to 15 Contact Outputs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



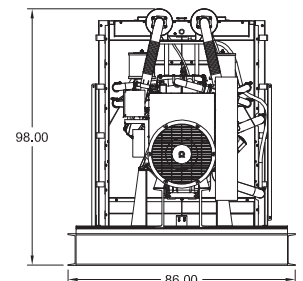
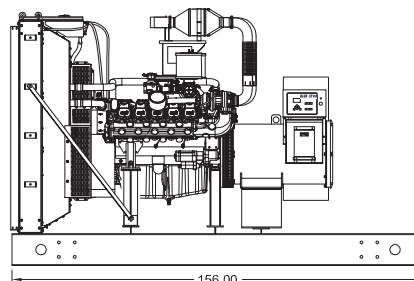
Weights / Dimensions / Sound Data

| | L x W x H | Weight lbs |
|----------------|-------------------|------------|
| OPU | 156 x 86 x 98 in | 9,925 |
| Level 1 | 156 x 86 x 110 in | 11,600 |
| Level 2 | 156 x 86 x 110 in | 11,700 |
| Level 3 | 228 x 86 x 110 in | 12,425 |

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



| | No Load | Full Load |
|----------------|---------|-----------|
| OPU | 83 dBA | 86 dBA |
| Level 1 | 81 dBA | 84 dBA |
| Level 2 | 76 dBA | 79 dBA |
| Level 3 | 71 dBA | 74 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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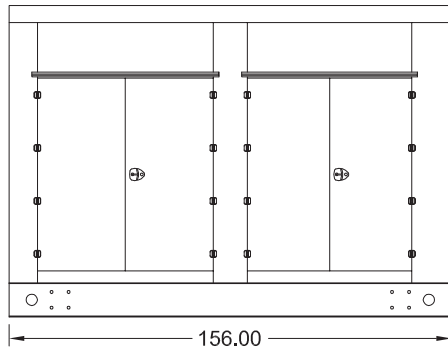
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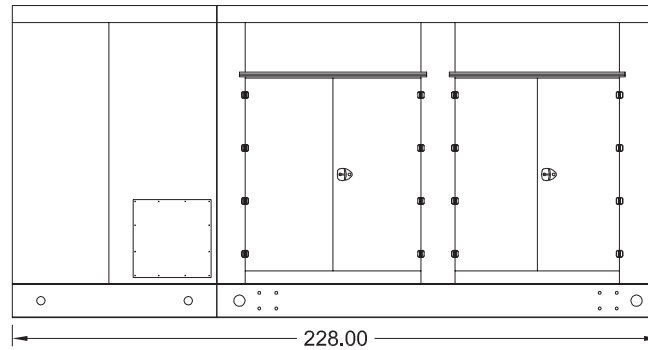
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Enclosures

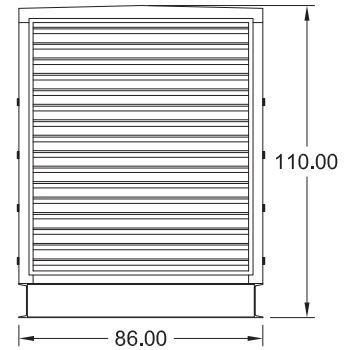
Level 1 & 2 | Side View (Weather Proof)



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