

BLUE STAR

Power Systems Inc.

Diesel Product Line

208-600 Volt

PD20-01IT4

60 Hz / 1800 RPM

17 kWe

Standby

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	S1L2-J41	S1L2-J41	S1L2-J41	S1L2-J41	S1L2-J41
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	17	17	17	17	17
AMPS	71	59	51	26	20
Temp Rise	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°C / 40°C	125°C / 40°C

Standard Equipment

Engine

- Radiator Cooled Unit Mounted (50°C)
- Radiator Duct Flange (OPU Only)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 12V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Critical Grade Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier IT4

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1% Voltage Regulation
- 4 Pole, Rotating Field
- 125°C Standby Temperature Rise
- 100% of Rated Load - One Step
- 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

Additional

- Single Source Supplier
- UL 2200 & cUL Listed
- CSA Certified
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 12V 6 Amp
- Jacket Water Heater -20°F 1000W 120V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors - White / Gray

Application Data

Engine

Manufacturer:	Perkins	Displacement - Cu. In. (lit):	135 (2.22)
Model:	404D-22G	Bore - in. (cm) x Stroke - in. (cm):	3.31 (8.40) x 3.94 (10.0)
Type:	4-Cycle	Compression Ratio:	23.3:1
Aspiration:	Natural	Rated RPM:	1800
Cylinder Arrangement:	4 Cylinder Inline	Max HP Stby (kW _m):	32.6 (24.3)

Exhaust System

Standby

Gas Temp. (Stack): °F (°C)	950 (510)
Gas Volume at Stack Temp: CFM (m ³ /min)	168 (4.76)
Maximum Allowable Exhaust Restriction: in. H ₂ O (kPa)	40.8 (10.2)

Cooling System

Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	15.5 (58.7)
Heat Rejection to Coolant: BTUM (kW)	1,269 (22.2)
Heat Radiated to Ambient: BTUM (kW)	275 (4.80)

Air Requirements

Aspirating: CFM (m ³ /min)	61.5 (1.74)
Air Flow Required for Rad. Cooled Unit: CFM (m ³ /min)	1,654 (46.8)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m ³ /min)	Consult Factory For Remote Cooled Applications

Fuel Consumption

At 100% of Power Rating: gal/hr (lit/hr)	1.81 (6.84)
At 75% of Power Rating: gal/hr (lit/hr)	1.43 (5.40)
At 50% of Power Rating: gal/hr (lit/hr)	1.09 (4.13)

Fluids Capacity

Total Oil System: gal (lit)	2.80 (10.6)
Engine Jacket Water Capacity: gal (lit)	0.95 (3.60)
System Coolant Capacity: gal (lit)	1.85 (7.00)

Deration Factors: Rated Power is available up to 1640ft (500m) at ambient temperatures to 86°F (30°C).
Consult factory for site conditions above these parameters.

DCP7310 Control Panel

Standard Features

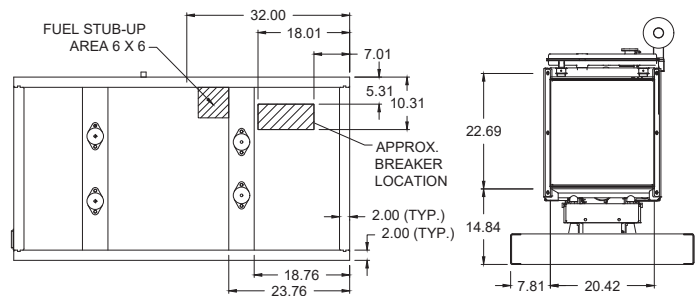
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- NFPA 110 Level 1 Compatible



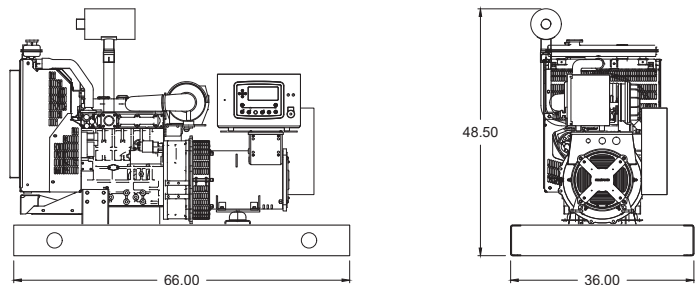
Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	66 x 36 x 48.5 in	1,275
Level 1	80 x 36 x 54 in	1,600
Level 2	80 x 36 x 54 in	1,650
Level 3	104 x 36 x 48 in	1,725

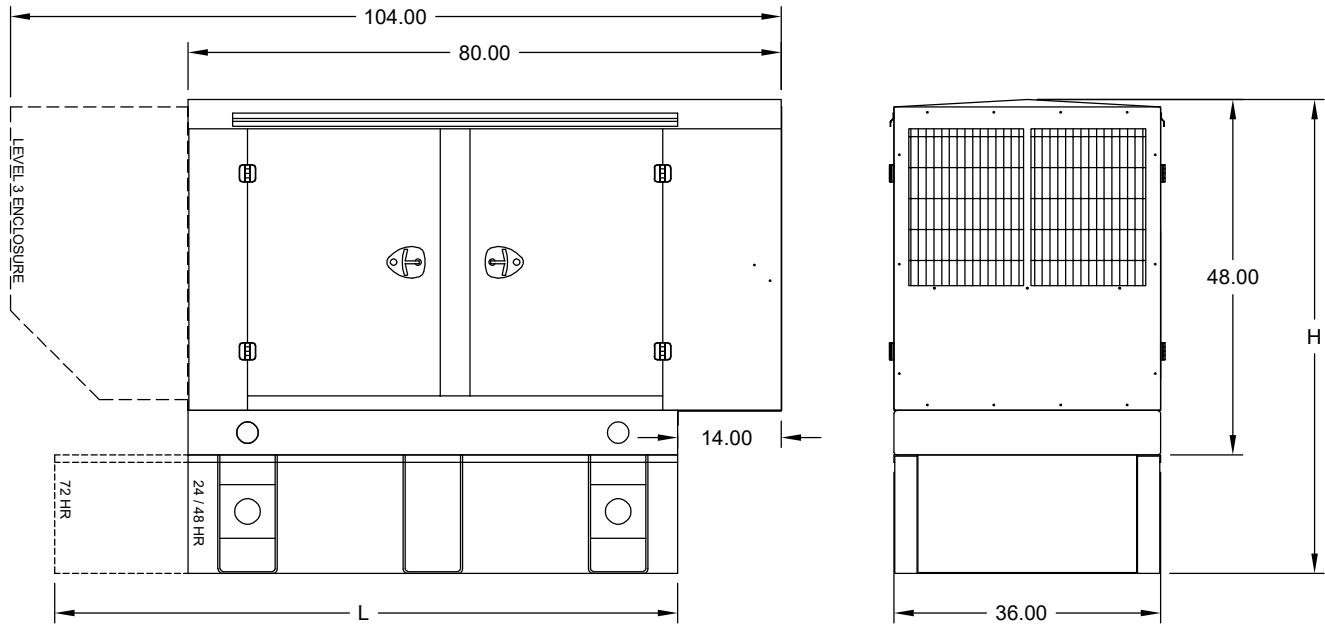
Please allow 6-12 inches for height of exhaust stack.



	No Load	Full Load
OPU	70 dBA	72 dBA
Level 1	64 dBA	66 dBA
Level 2	60 dBA	63 dBA
Level 3	58 dBA	60 dBA



Enclosures & Fuel Tanks



- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

	24 Hour 70 Gallon	48 Hour 140 Gallon	72 Hour 210 Gallon
L	66.00	66.00	84.00
H	64.00	78.00	80.00

Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures and fuel tanks are based on the standard unit configuration. Any requested deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.

American Owned



American Made

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