# BLUE ST R Power Systems Inc.

Diesel Product Line

208-600 Volt

PD400-01 60 Hz / 1800 RPM

400 kWe Standby

## Ratings

	208V	240V	480V	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	S4L1D-G41	S4L1D-G41	S4L1D-F41	S4L1S-F4
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	400	400	400	400
AMPS	1390	1204	602	482
Temp Rise	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
- 24V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Critical Grade Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 3

#### Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 0.50% 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 24V 5 Amp
- Jacket Water Heater -20°F 4000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors White / Gray

PD400-01 1 of 4

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#### 400 kWe



# **Application Data**

Engine			
Manufacturer:	Perkins	Displacement - Cu. In. (lit):	763 (12.5)
Model:	2206D-E13TAG3	Bore - in. (cm) x Stroke - in. (cm):	5.12 (13.0) x 6.18 (15.7)
Туре:	4-Cycle	Compression Ratio:	16.3:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	619 (462)
Exhaust System			Standby
Gas Temp. (Stack): °F (°C)			1,256 (680)
Gas Volume at Stack Temp: CFM (m³/	min)		3,046 (86.2)
Maximum Allowable Exhaust Restriction	on: in. H <sub>2</sub> O (kPa)		40.0 (10.0)
Cooling System			
Ambient Capacity of Radiator: °F (°C)			122 (50.0)
Maximum Allowable Static Pressure o	n Rad. Exhaust: in. H <sub>2</sub> O (kPa)		0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)			106 (402)
Heat Rejection to Coolant: BTUM (kW)	)		8,903 (156)
Heat Rejection to CAC: BTUM (kW)			4,377 (76.6)
Heat Radiated to Ambient: BTUM (kW	)		8,069 (141)
Air Requirements			
Aspirating: CFM (m³/min)			1,053 (29.8)
Air Flow Required for Rad. Cooled Uni	t: CFM (m³/min)		27,845 (788)
Air Flow Required for Heat Exchanger/	/Rem. Rad. CFM (m³/min)	Consult Factory Fo	or Remote Cooled Applications
Fuel Consumption			
At 100% of Power Rating: gal/hr (lit/hr	)		26.8 (101)
At 75% of Power Rating: gal/hr (lit/hr)		21.5 (81.2)	
At 50% of Power Rating: gal/hr (lit/hr)			15.7 (59.5)
Fluids Capacity			
Total Oil System: gal (lit)			10.6 (40.0)
Engine Jacket Water Capacity: gal (lit)			7.48 (28.3)
System Coolant Capacity: gal (lit)			13.6 (51.4)

PD400-01 2 of 4

Deration Factors: Rated Power is available up to 3281ft (1000m) at ambient temperatures to 104°F (40°C).

Consult factory for site conditions above these parameters.

## Diesel Product Line

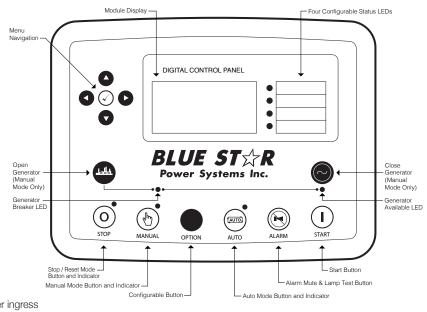
#### 400 kWe



### 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

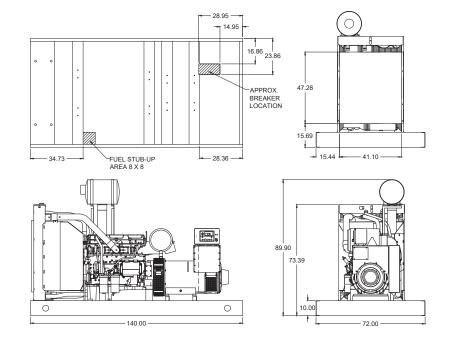


# Weights / Dimensions / Sound Data

	LxWxH	Weight lbs
OPU	140 x 72 x 90 in	8,175
Level 1	180 x 72 x 103 in	9,825
Level 2	180 x 72 x 103 in	9,900
Level 3	225 x 72 x 103 in	10,325

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

	No Load	Full Load
OPU	88 dBA	91 dBA
Level 1	84 dBA	86 dBA
Level 2	79 dBA	81 dBA
Level 3	70 dBA	73 dBA



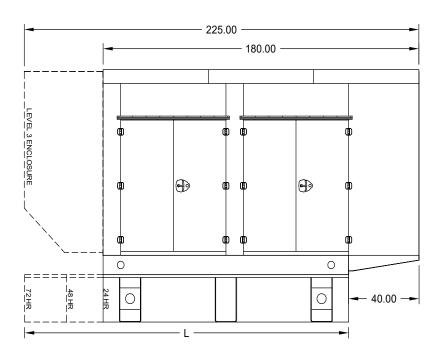
PD400-01 3 of 4

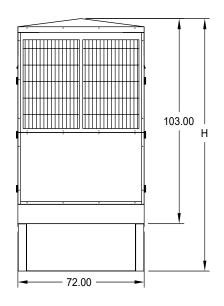
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## **Enclosures & Fuel Tanks**





- 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 710 Gallon	48 Hour 1420 Gallon	72 Hour 2130 Gallon
L	140.00	180.00	250.00
Н	127.00	139.00	139.00

#### 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 Made

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PD400-01 4 of 4