BLUE STAR
Power Systems

Diesel Product Line

208-600 Volt

PD600-01

60 Hz / 1800 RPM

600 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	S6L1D-C	S6L1D-C	HCI534E	HCI534F
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	600	600	600	600
AMPS	2084	1806	903	723
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 2

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 - Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20˚F 5000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- 2 Year / 2000 Hour Standby Warranty
- Standard Colors - White / Gray

Application Data

Engine

Manufacturer:	Perkins	Displacement - Cu. In. (lit):	1,106 (18.1)
Model:	2806C-E18TAG3	Bore - in. (cm) x Stroke - in. (cm):	5.71 (14.5) x 7.20 (18.3)
Type:	4-Cycle	Compression Ratio:	14.5:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	909 (678)

Exhaust System	**Standby**
Gas Temp. (Stack): °F (°C)	1,029 (554)
Gas Volume at Stack Temp: CFM (m^3/min)	4,982 (141)
Maximum Allowable Exhaust Restriction: in. H_2O (kPa)	27.6 (6.90)
Cooling System	
Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H_2O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	114 (432)
Heat Rejection to Coolant: BTUM (kW)	10,457 (183)
Heat Rejection to CAC: BTUM (kW)	8,914 (156)
Heat Radiated to Ambient: BTUM (kW)	11,902 (208)
Air Requirements	
Aspirating: CFM (m^3/min)	1,837 (52.0)
Air Flow Required for Rad. Cooled Unit: CFM (m^3/min)	30,106 (852)
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)	40.5 (153)
At 75% of Power Rating: gal/hr (lit/hr)	31.9 (121)
At 50% of Power Rating: gal/hr (lit/hr)	23.1 (87.5)
Fluids Capacity	
Total Oil System: gal (lit)	16.4 (62.0)
Engine Jacket Water Capacity: gal (lit)	5.49 (20.8)
System Coolant Capacity: gal (lit)	16.1 (61.0)

Deration Factors: Rated Power is available up to 3,281 ft (1000 m) at ambient temperatures to 86°F (30°C).
Consult factory for site conditions above these parameters.

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600 kWe

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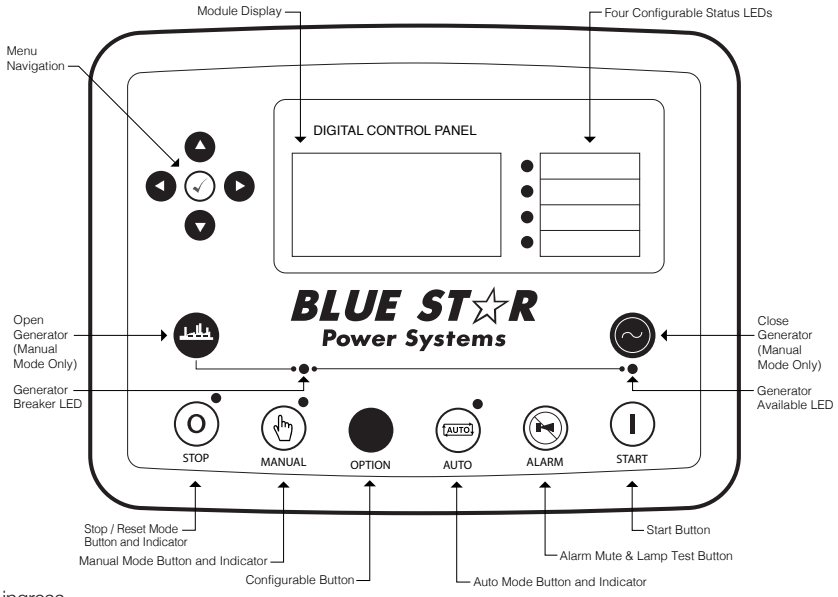
DCP7310 Control Panel

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

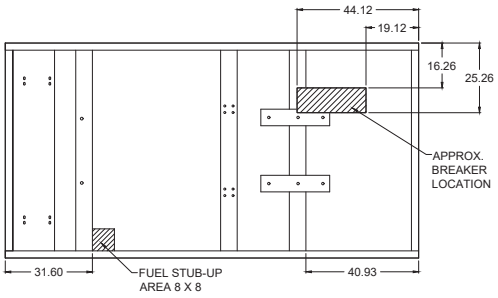


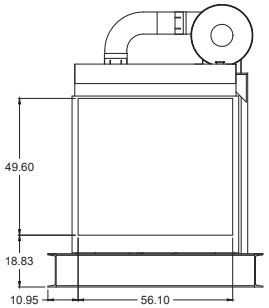
Weights / Dimensions / Sound Data

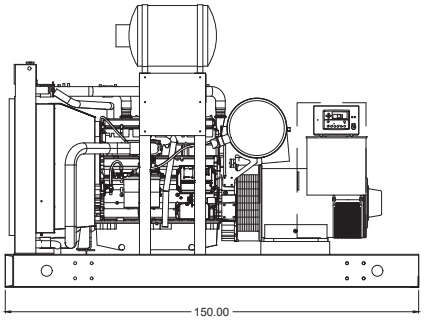
	L x W x H	Weight lbs
OPU	150 x 78 x 103 in	10,625
Level 1	200 x 78 x 110 in	12,450
Level 2	200 x 78 x 110 in	12,525
Level 3	255 x 78 x 110 in	13,025

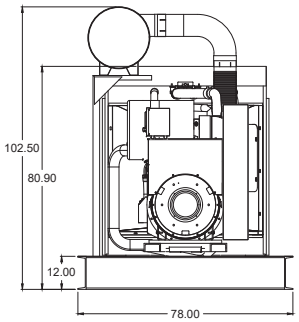
Please allow 6-12 inches for height of exhaust stack.

	No Load	Full Load
OPU	92 dBA	94 dBA
Level 1	87 dBA	90 dBA
Level 2	82 dBA	84 dBA
Level 3	74 dBA	76 dBA

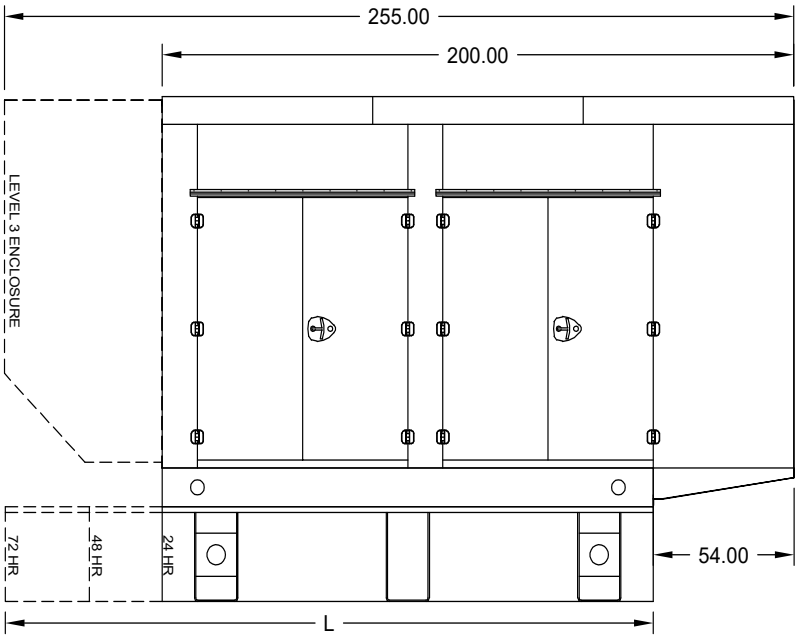


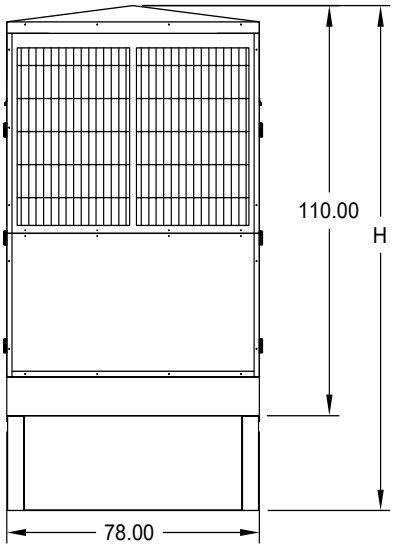






Enclosures & Fuel Tanks





- 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 1000 Gallon	48 Hour 2000 Gallon	72 Hour 3000 Gallon
L	150.00	228.00	336.00
H	140.00	146.00	146.00

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.

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