BLUE STAR
Power Systems

Diesel Product Line

208-600 Volt

PD200-01

60 Hz / 1800 RPM

200 kWe

Standby

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	S4L1D-E41	UCDI274J1	UCDI274J1	UCI274H	UCI274H
Connection	12 LEAD DD	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe	200	200	200	200	200
AMPS	833	695	602	301	241
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 3

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 2000W 240V 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):	428 (7.01)
Model:	1106D-E70TAG5	Bore - in. (cm) x Stroke - in. (cm):	4.13 (10.5) x 5.31 (13.5)
Type:	4-Cycle	Compression Ratio:	16.8:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	315 (235)

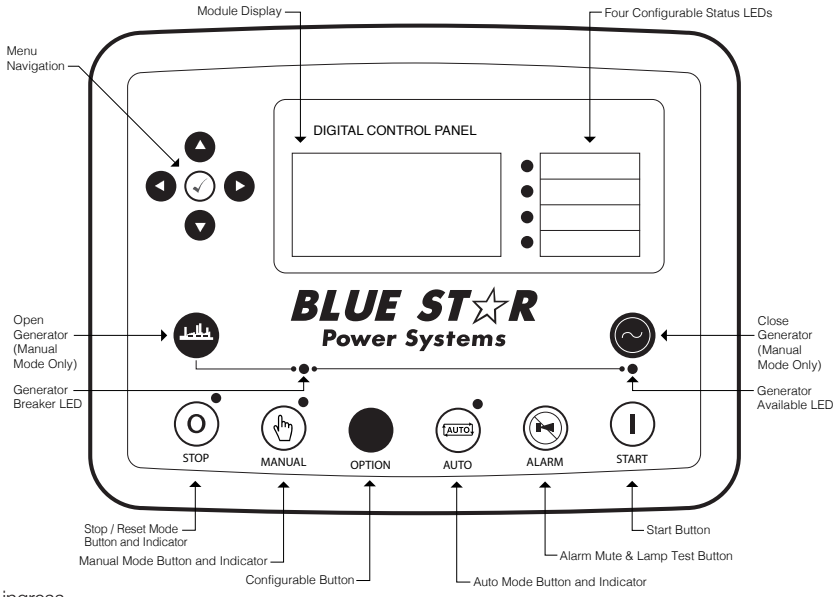
Exhaust System	**Standby**
Gas Temp. (Stack): °F (°C)	1,027 (553)
Gas Volume at Stack Temp: CFM (m^3/min)	1,353 (38.3)
Maximum Allowable Exhaust Restriction: in. H_2O (kPa)	40.0 (10.0)
Cooling System	
Ambient Capacity of Radiator: °F (°C)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H_2O (kPa)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	44.9 (170)
Heat Rejection to Coolant: BTUM (kW)	5,251 (91.9)
Heat Rejection to CAC: BTUM (kW)	2,709 (47.4)
Heat Radiated to Ambient: BTUM (kW)	4,020 (70.4)
Air Requirements	
Aspirating: CFM (m^3/min)	597 (16.9)
Air Flow Required for Rad. Cooled Unit: CFM (m^3/min)	10,161 (288)
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)	14.8 (55.9)
At 75% of Power Rating: gal/hr (lit/hr)	12.3 (46.4)
At 50% of Power Rating: gal/hr (lit/hr)	8.48 (32.1)
Fluids Capacity	
Total Oil System: gal (lit)	4.62 (17.5)
Engine Jacket Water Capacity: gal (lit)	2.51 (9.50)
System Coolant Capacity: gal (lit)	5.55 (21.0)

Deration Factors: Rated Power is available up to 1640ft (500m) at ambient temperatures to 122°F (50°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

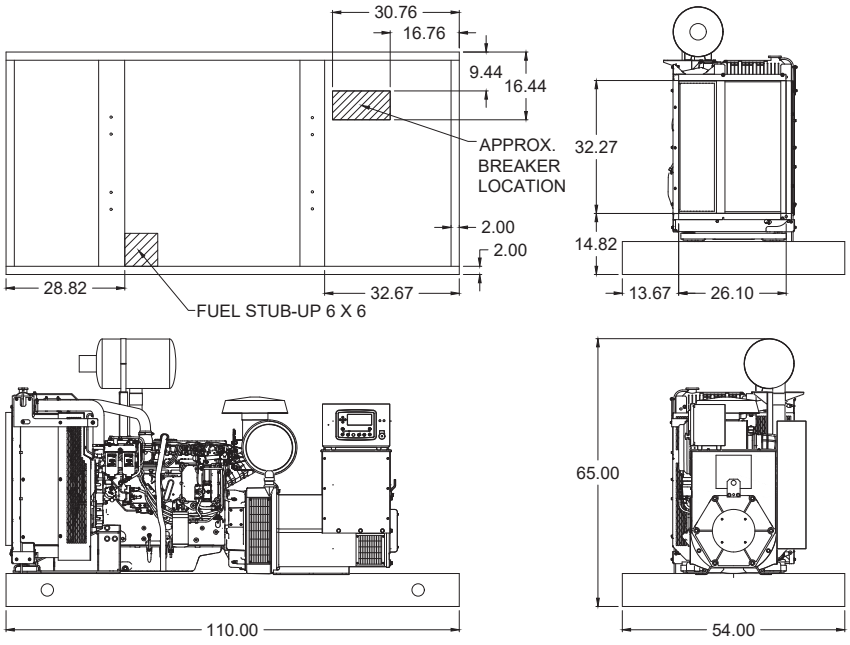


Weights / Dimensions / Sound Data

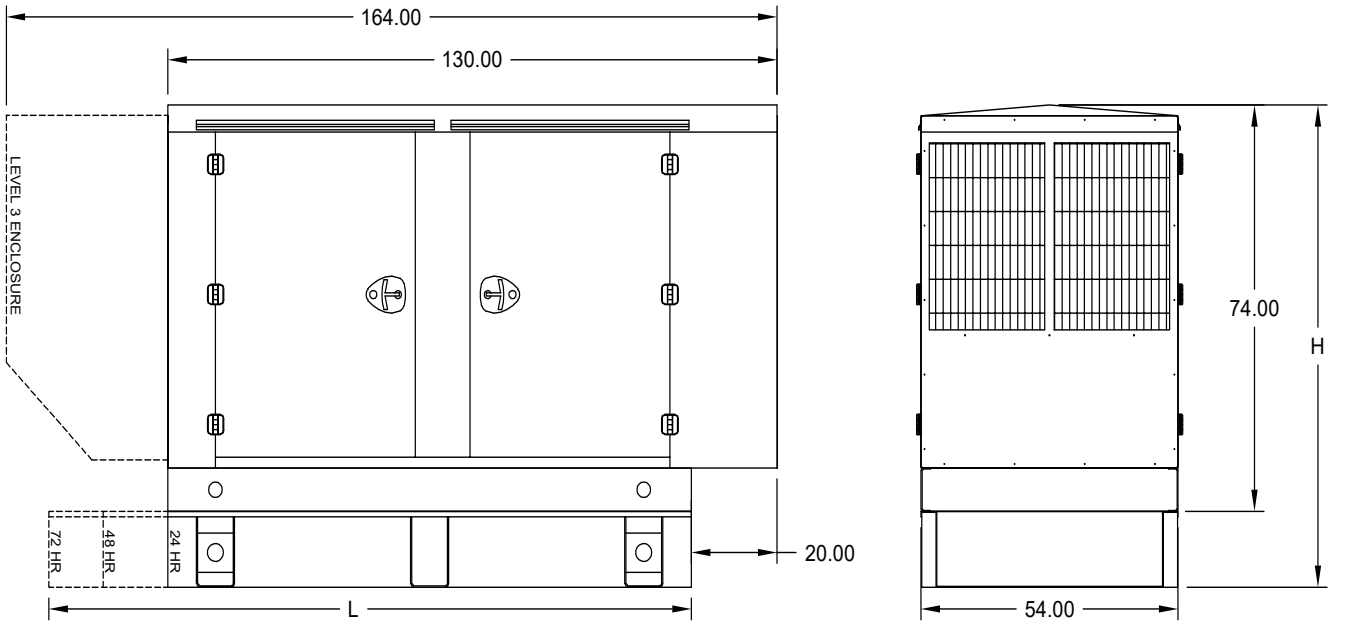
	L x W x H	Weight lbs
OPU	110 x 54 x 65 in	4,150
Level 1	130 x 54 x 74 in	5,025
Level 2	130 x 54 x 74 in	5,075
Level 3	164 x 54 x 74 in	5,300

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

	No Load	Full Load
OPU	82 dBA	85 dBA
Level 1	80 dBA	82 dBA
Level 2	75 dBA	78 dBA
Level 3	71 dBA	73 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 375 Gallon	48 Hour 750 Gallon	72 Hour 1125 Gallon
L	110.00	144.00	204.00
H	100.00	110.00	110.00

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.

Blue Star Power Systems
2250 Carlson Drive
North Mankato, Minnesota 56003
Phone + 1 507 345 1776
bluestarps.com
quote.bluestarps.com
sales@bluestarps.com
/ A DEUTZ ENERGY COMPANY /