

208-600 Volt

CD300-02 60 Hz / 1800 RPM

300 kWe / 270 kWe Standby / Prime

Ratings

| | 240V | 208V | 240V | 480 V | 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 | 572RSL4029 | 433CSL6216 | 433CSL6216 | 432CSL6212 | 432PSL6246 |
| Connection | 12 LEAD ZIG-ZAG | 12 LEAD WYE | 12 LEAD DELTA | 12 LEAD WYE | 4 LEAD WYE |
| Standby | | | | | |
| kWe | 300 | 300 | 300 | 300 | 300 |
| AMPS | 1250 | 1042 | 903 | 452 | 361 |
| Temp Rise | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C | 130°C / 27°C |
| Prime [Only Available | for Mobile Applications] | | | | |
| kWe | 270 | 270 | 270 | 270 | 270 |
| AMPS | 1125 | 938 | 813 | 406 | 325 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |

Standard Equipment

Engine

- ▶ Radiator Cooled Unit Mounted (50°C)
- ▶ Blower Fan & Fan Drive
- ▶ Starter & Alternator
- ▶ Oil Pump & Filter
- ▶ Oil Drain Extension w/ Valve
- ▶ Governor Electronic Isochronous
- ▶ 24V Battery System & Cables
- ▶ SAE Flywheel Housing
- ▶ Air Cleaner (Dry Single Stage)
- ▶ Flexible Fuel Connectors
- ▶ EPA Certified Tier 3

Generator

- ▶ Brushless Single Bearing
- ▶ Automatic Voltage Regulator
- ▶ ± 1.0% Voltage Regulation
- ▶ 4 Pole, Rotating Field
- ▶ 130°C Standby Temperature Rise
- ▶ 105°C Prime Temperature Rise
- ▶ 100% of Rated Load One Step
- ▶ 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI standards compliance for temperature rise

Additional

▶ UL 2200 Listed



- ▶ Microprocessor Based Digital Control
- ▶ Base Formed Steel
- ▶ Main Line Circuit Breaker Mounted & Wired
- ▶ Critical Grade Silencer Mounted
- ▶ Battery Charger 24V 5 Amp
- ► Jacket Water Heater -20°F 2500W 240V w/Isolation Valves
- ▶ Vibration Isolation Mounts
- ▶ Radiator Duct Flange (OPU Only)
- ▶ Single Source Supplier
- ▶ 2YR / 2000HR Standby Warranty
- ▶ 1YR / 1500HR Prime Warranty
- ▶ Standard Colors White / Tan / Gray

CD300-02

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300 kWe / 270 kWe



Application Data

| Engine | | | |
|-----------------------|--------------------|--------------------------------------|---------------------------|
| Manufacturer: | Cummins | Displacement - Cu. In. (lit): | 543 (8.9) |
| Model: | QSL9-G7 NR3 | Bore - in. (cm) x Stroke - in. (cm): | 4.49 (11.4) x 5.69 (14.5) |
| Type: | 4-Cycle | Compression Ratio: | 16.1:1 |
| Aspiration: | Turbo Charged, CAC | Rated RPM: | 1800 |
| Cylinder Arrangement: | 6 Cylinder Inline | Max HP Stby (kWm): | 464 (346) |

| Exhaust System | Standby | Prime |
|--|--|--------------|
| Gas Temp. (Stack): °F (°C) | 977 (525) | 919 (493) |
| Gas Volume at Stack Temp: CFM (m³/min) | 2,341 (66.3) | 2,200 (62.3) |
| Maximum Allowable Exhaust Restriction: in. H2O (kPa) | 40.8 (10.2) | 40.8 (10.2) |
| Cooling System | | |
| Ambient Capacity of Radiator: °F (°C) | 122 (50.0) | 122 (50.0) |
| Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa) | 0.5 (0.12) | 0.5 (0.12) |
| Water Pump Flow Rate: Gpm (lit/min) | 72.0 (273) | 72.0 (273) |
| Heat Rejection to Coolant: BTUM (kW) | 8,262 (145) | 7,469 (131) |
| Heat Rejection to CAC: BTUM (kW) | 5,036 (88.1) | 4,620 (80.9) |
| Heat Radiated to Ambient: BTUM (kW) | 2,135 (37.4) | 1,921 (33.6) |
| Air Requirements | | |
| Aspirating: CFM (m³/min) | 898 (25.4) | 867 (24.5) |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min) | 20,637 (584) | 20,637 (584) |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min) | Consult Factory For Remote Cooled Applications | |
| Fuel Consumption | | |
| At 100% of Power Rating: gal/hr (lit/hr) | 23.5 (89.0) | 21.2 (80.3) |
| At 75% of Power Rating: gal/hr (lit/hr) | 18.5 (70.0) | 17.4 (65.9) |
| At 50% of Power Rating: gal/hr (lit/hr) | 14.2 (53.7) | 12.6 (47.7) |
| Fluids Capacity | | |
| Total Oil System: gal (lit) | 9.0 (34.1) | 9.0 (34.1) |
| Engine Jacket Water Capacity: gal (lit) | 2.91 (11.0) | 2.91 (11.0) |
| System Coolant Capacity: gal (lit) | 10.7 (40.5) | 10.7 (40.5) |

Deration Factors

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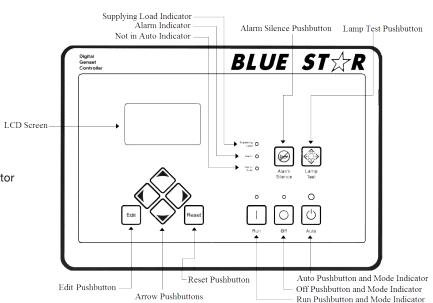
300 kWe / 270 kWe



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

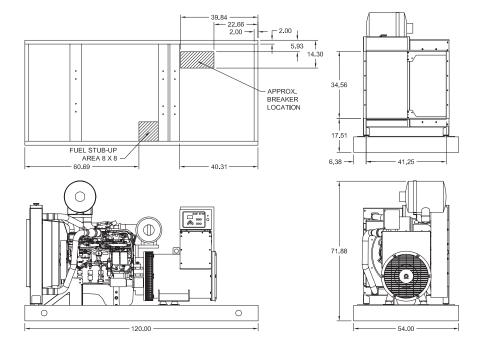


Weights / Dimensions / Sound Data

| LxWxH | Weight lbs |
|-------------------|---|
| 120 x 54 x 72 in | 4675 |
| 120 x 54 x 88 in | 5450 |
| 120 x 54 x 106 in | 5750 |
| 160 x 54 x 98 in | 6375 |
| | 120 x 54 x 72 in 120 x 54 x 88 in 120 x 54 x 106 in |

Height measured from bottom of base to exhaust stack.

| | No Load | Full Load | | |
|---------|---------|-----------|--|--|
| OPU | 84 dBA | 87 dBA | | |
| Level 1 | 80 dBA | 83 dBA | | |
| Level 2 | 79 dBA | 82 dBA | | |
| Level 3 | 72 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.

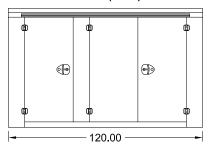
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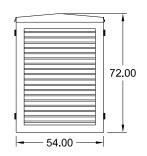
300 kWe / 270 kWe



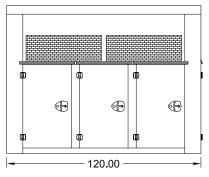
Optional Enclosures and Fuel Tanks

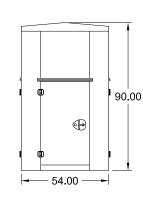
Level 1 Enclosure (WPE)



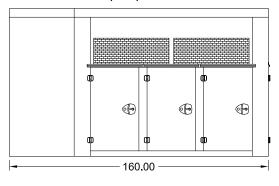


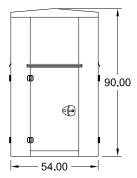
Level 2 Enclosure (WPF)

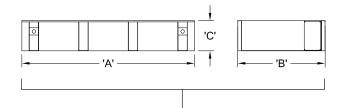




Level 3 Enclosure (SAE)







^{***}Enclosure height does not include unit base or exhaust stack.

| ouble Wall | UL 142 Listed Fuel Tanks 24 Hour (560 Gallon) | | 48 Hour (1 | 48 Hour (1120 Gallon) | | | 72 Hour (1680 Gallon) | | |
|------------|---|-------|------------|-----------------------|-------|-------|-----------------------|-------|-------|
| | Α | В | С | Α | В | С | A | В | С |
| OPU | 120.00 | 54.00 | 32.00 | 195.00 | 54.00 | 36.00 | 275.00 | 54.00 | 36.00 |
| Level 1 | 120.00 | 54.00 | 32.00 | 195.00 | 54.00 | 36.00 | 275.00 | 54.00 | 36.00 |
| Level 2 | 120.00 | 54.00 | 32.00 | 195.00 | 54.00 | 36.00 | 275.00 | 54.00 | 36.00 |
| Level 3 | 160.00 | 54.00 | 22.00 | 195.00 | 54.00 | 36.00 | 275.00 | 54.00 | 36.00 |

^{*}All specification sheet dimensions are represented in inches.

Materials and specifications subject to change without notice.

Distributed By:



Blue Star Power Systems, Inc.

52146 Ember Rd, Lake Crystal, MN 56055 Phone + 1 507 726 2508 www.bluestarps.com

CD300-02 Rev1.0

^{*}Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).

^{**}Level 2 & 3 enclosures are 150 MPH Wind Rated as standard.

^{**}All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions.

^{***}Level 1 enclosure not UL listed.