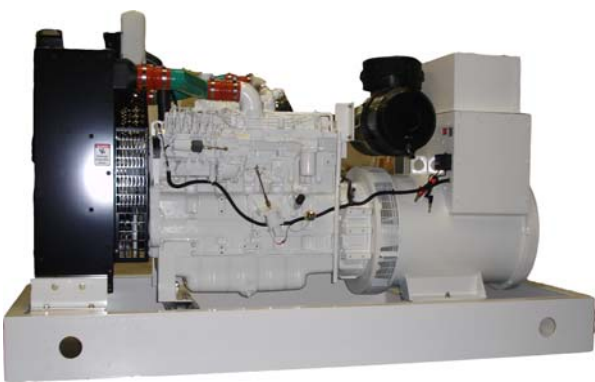


CD160-01 Diesel Gen-Set

EPA Tier Level Three



ENGINE TECHNICAL DATA:

60hz

Model:	QSB7-G3 NR3	
Type:	4-Cycle	
Aspiration:	Turbo Charged , Air to Air CAC	
Cylinder Arrangement:	6 cylinder Inline	
Displacement – Cu. In. (lit)	408 (6.7)	
Bore – in. (cm) x stroke – in. (cm)	4.21 (10.7) x 4.88 (12.4)	
Compression Ratio	17.2: 1	
Rated RPM	1800	
Rating:	Standby	Prime
Kilowatts	160	140
Maximum Power at Rated RPM – bhp (kW)	250 (187)	218 (163)
BMEP: psi (kPa)	267 (1,845)	235 (1,621)

INSTALLATION DATA.

Exhaust System

Gas Temp. (Stack):	°F (°C)	979 (526)	900 (482)
Gas Volume at Stack Temp:	CFM (m³/min)	1,330 (37.6)	1,223 (34.6)
Maximum Allowable Exhaust Restriction:	in. H2O (kPa)	40.1 (10.2)	40.1 (10.2)
Minimum Allowable Exhaust Restriction:	in. H2O (kPa)	N/A	N/A

Cooling System

Ambient Capacity of Radiator:	°F (°C)	122 (50)	122 (50)
Maximum Allowable Static Pressure on Rad. Exhaust:	in. H2O (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Flow Rate:	Gpm (lit/min)	38 (144)	38 (144)
Heat Rejection to Coolant:	BTUM (kW)	4,446 (78)	3,959 (70)
Heat Radiated to Ambient:	BTUM (kW)	2505 (43.8)	2191 (38.4)

Air Requirements

Aspirating:	CFM (m³/min)	522 (14.8)	505 (14.3)
Air Flow Required for Rad. Cooled Unit:	CFM (m³/min)	16,000 (452)	16,000 (452)
Air Flow Required for Heat Exchange/Remote Rad.:	CFM (m³/min)	Consult factory for remote cooled applications.	

Fuel Consumption

At 100% of Power Rating:	gal/hr (lit/hr)	12.8 (48.5)	11.2 (42.4)
At 75% of Power Rating:	gal/hr (lit/hr)	9.5 (36.0)	8.6 (32.6)
At 50% of Power Rating:	gal/hr (lit/hr)	7.0 (26.5)	6.2 (23.5)

Sound Level Data.

Sound Level at:	Full Load	No Load	Full Load	No Load
23ft (7m) Open Unit W/ Std Critical Silencer (dBA)	82	78	80	78
23ft (7m) Sound Attenuated Enclosure (dBA)	75	73	75	73

Dimensions & Weight

Length: In. (cm)	110 (279)
Width: In. (cm)	48 (122)
Height: In. (cm)	57 (145)
Weight: lb. (kg)	3047 (1382)

Fluids Capacity

Total Oil System: gal (lit)	5.0 (18.9)
Engine Jacket Water Capacity: gal (lit)	2.7 (10.2)
System Coolant Capacity: gal (lit)	6.1 (23.1)

Electrical System

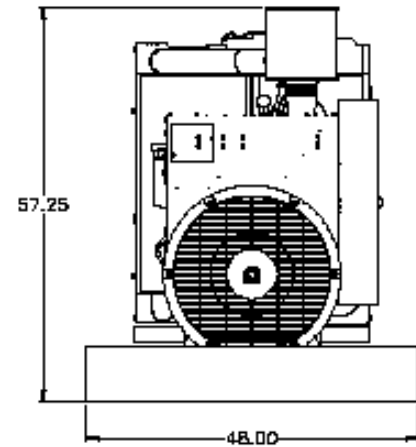
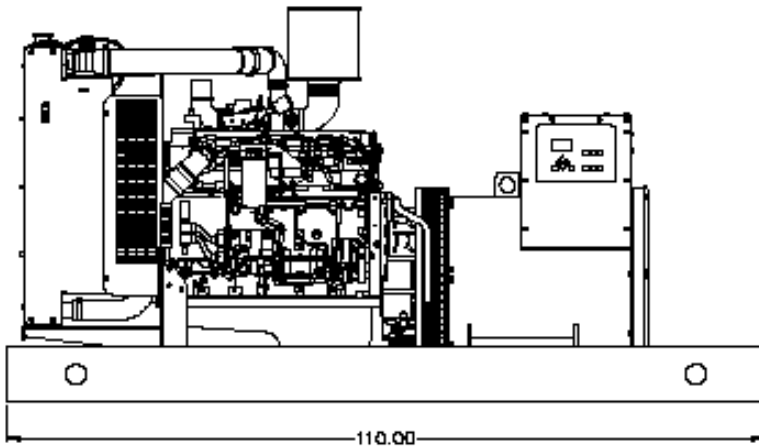
Electric Voltage DC	12
Cold Cranking Amps @ 0°F (-18°C)	1100

Fuel System

Fuel Supply Connection Size:	1/2 NPT
Fuel Return Connection Size:	1/2 NPT
Maximum Fuel Lift: ft (m)	6 (2)
Recommended Fuel:	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	28 (106)

Remote Cooling Systems

Connection Sizes:	
Engine water inlet: In (cm)	C/F
Engine water outlet: In (cm)	C/F
Maximum height allowed above engine: ft (m)	C/F



Engine Features

- Radiator Cooled
- Starter and Alternator
- Oil Pump and Filter
- Electric Isochronous Governor
- EPA Tier level 3 Certified

Generator Features

- Brushless Single Bearing
- Automatic Voltage Regulator
- Over-excitation Protection
 - Under-Frequency Compensation
- Available Voltages:
 - 480/277 3PH 12 wire
 - 208/120 3PH 12 wire
 - 240/120 3PH 12 wire
 - 240/120 1PH 12 wire
 - 240/120 1PH 4 wire
 - 600/347 3PH 4 wire

DGC 2020 Controller Features

- Microprocessor based, digital control system
- Unit-mounted
- Engine vitals monitored by LCD display
 - Oil Pressure
 - Running Time
 - Engine Temperature
 - Safety Shutdowns: HWT, OC, OS, LOP
- Battery Voltage
- Generator AC Voltage
- AC Amperage
- Frequency
- Continuous Displays
 - Oil pressure
 - Engine temperature
 - Battery voltage
 - Fuel level

Additional Standard Features

- Main Circuit Breaker (Mounted and wired)
- Flexible Fuel Connectors
- Battery: 12 volt with rack
- Battery Charger: 12 volt 3 amp
- Vibration Isolation Mounts
- Jacket water heater: - 20°F
- Critical Grade Silencer (Mtd)
- Oil Drain Valve with extension
- Radiator Duct Adapter (OPU only)

Optional Features

- Sub-base fuel tank (single or double wall) with or without electrical stub-up area
- Weather Protective or Sound Attenuated enclosures
- Remote Monitoring panels
- PMG Excitation

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