

CD130-01 Diesel Gen-Set

EPA Tier Level Three



ENGINE TECHNICAL DATA:

60hz

Model:	QSB5-G6 NR3	
Type:	4-Cycle	
Aspiration:	Turbo Charged , Air to Air CAC	
Cylinder Arrangement:	4 cylinder Inline	
Displacement – Cu. In. (lit)	272 (4.5)	
Bore – in. (cm) x stroke – in. (cm)	4.21 (10.7) x 4.88 (12.4)	
Compression Ratio	17.3 : 1	
Rated RPM	1800	
Rating:	Standby	Prime
Kilowatts	130	120
Maximum Power at Rated RPM – bhp (kW)	208 (155)	183 (136)
BMEP: psi (kPa)	319 (2,198)	296 (2,042)

INSTALLATION DATA.

Exhaust System

Gas Temp. (Stack):	°F (°C)	982 (528)	913 (896)
Gas Volume at Stack Temp:	CFM (m³/min)	906 (25.6)	861 (24.4)
Maximum Allowable Exhaust Restriction:	in. H2O (kPa)	41 (10.2)	41 (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)	39 (148)	39 (148)
Heat Rejection to Coolant:	BTUM (kW)	2,873 (51)	2,521 (44)
Heat Radiated to Ambient:	BTUM (kW)	1,665 (29.1)	1,537 (26.9)

Air Requirements

Aspirating:	CFM (m³/min)	368 (10.4)	310 (10.4)
Air Flow Required for Rad. Cooled Unit:	CFM (m³/min)	8,205 (232)	8,205 (232)
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)	10.3 (39.0)	9.3 (35.0)
At 75% of Power Rating:	gal/hr (lit/hr)	8.9 (33.7)	8.4 (32.0)
At 50% of Power Rating:	gal/hr (lit/hr)	6.3 (23.8)	5.6 (21.0)

Sound Level Data.

Sound Level at:	Full Load	No Load	Full Load	No Load
23ft (7m) Open Unit W/ Std Critical Silencer (dBA)	80	76	78	76
23ft (7m) Sound Attenuated Enclosure (dBA)	75	73	71	73

Dimensions & Weight

Length: In. (cm)	100 (254)
Width: In. (cm)	44 (112)
Height: In. (cm)	53 (135)
Weight: lb. (kg)	2,661 (1,207)

Fluids Capacity

Total Oil System: gal (lit)	3.2 (12.0)
Engine Jacket Water Capacity: gal (lit)	2.2 (8.5)
System Coolant Capacity: gal (lit)	5.4 (20.4)

Electrical System

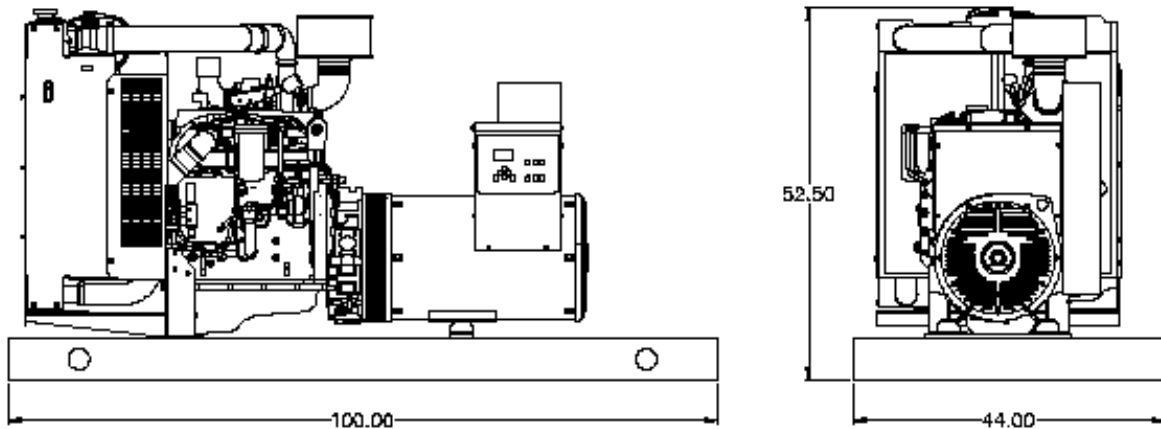
Electric Voltage DC	12
Cold Cranking Amps @ 0°F (-18°C)	1,300

Fuel System

Fuel Supply Connection Size:	1/2 NPT
Fuel Return Connection Size:	1/2 NPT
Maximum Fuel Lift: ft (m)	10 (3)
Recommended Fuel:	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	25.0 (95.0)

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 & box
- 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 tanks (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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