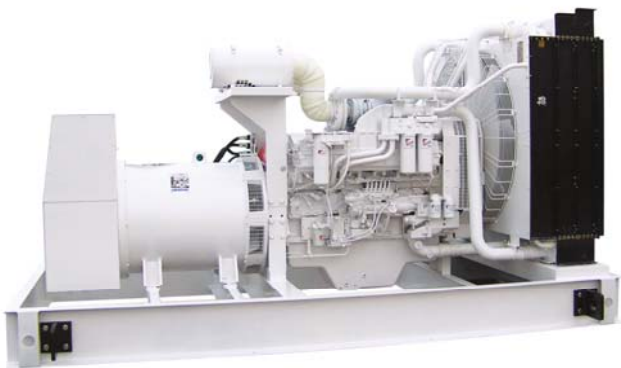


CD1000-01 Diesel Gen-Set

EPA Tier Level Two



ENGINE TECHNICAL DATA:

60hz

Model:	QST30-G5 NR2 2P/2L	
Type:	4-Cycle	
Aspiration:	Turbo Charged , Air to Air CAC	
Cylinder Arrangement:	12 cylinder vee	
Displacement – Cu. In. (lit)	1,860 (30.5)	
Bore – in. (cm) x stroke – in. (cm)	5.51 (14.0) x 6.50 (16.5)	
Compression Ratio	14.7: 1	
Rated RPM	1800	
Rating:	Standby	Prime
Kilowatts	1000	900
Maximum Power at Rated RPM – bhp (kW)	1,490 (1112)	1,350 (1007)
BMEP: psi (kPa)	350 (2411)	316 (2181)

INSTALLATION DATA.

Exhaust System

Gas Temp. (Stack):	°F (°C)	870 (465)	845 (455)
Gas Volume at Stack Temp:	CFM (m³/min)	8,030 (227)	7,375 (209)
Maximum Allowable Exhaust Restriction:	in. H2O (kPa)	27.2 (6.8)	27.2 (6.8)
Minimum Allowable Exhaust Restriction:	in. H2O (kPa)	N/A	N/A

Cooling System

Ambient Capacity of Radiator:	°F (°C)	115 (46)	115 (46)
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)	270 (1022)	270 (1022)
Heat Rejection to Coolant:	BTUM (kW)	21,500 (376)	19,925 (349)
Heat Radiated to Ambient:	BTUM (kW)	7,875 (138)	7,095 (124)

Air Requirements

Aspirating:	CFM (m³/min)	3,325 (94.1)	3,090 (87.4)
Air Flow Required for Rad. Cooled Unit:	CFM (m³/min)	63,970 (1,810)	63,970 (1,810)
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)	72.7 (275)	65.4 (248)
At 75% of Power Rating:	gal/hr (lit/hr)	56.0 (212)	48.8 (185)
At 50% of Power Rating:	gal/hr (lit/hr)	36.0 (136)	33.1 (125)

Sound Level Data.

Sound Level at:	Full Load	No Load	Full Load	No Load
23ft (7m) Open Unit W/ Std Critical Silencer (dBA)	CF	CF	CF	CF
23ft (7m) Sound Attenuated Enclosure (dBA)	CF	CF	CF	CF

Dimensions & Weight

Length: In. (cm)	200 (508)
Width: In. (cm)	92 (234)
Height: In. (cm)	102 (259)
Weight: lb. (kg)	16,540 (7,502)

Fluids Capacity

Total Oil System: gal (lit)	41 (155)
Engine Jacket Water Capacity: gal (lit)	21 (79)
System Coolant Capacity: gal (lit)	54 (204)

Electrical System

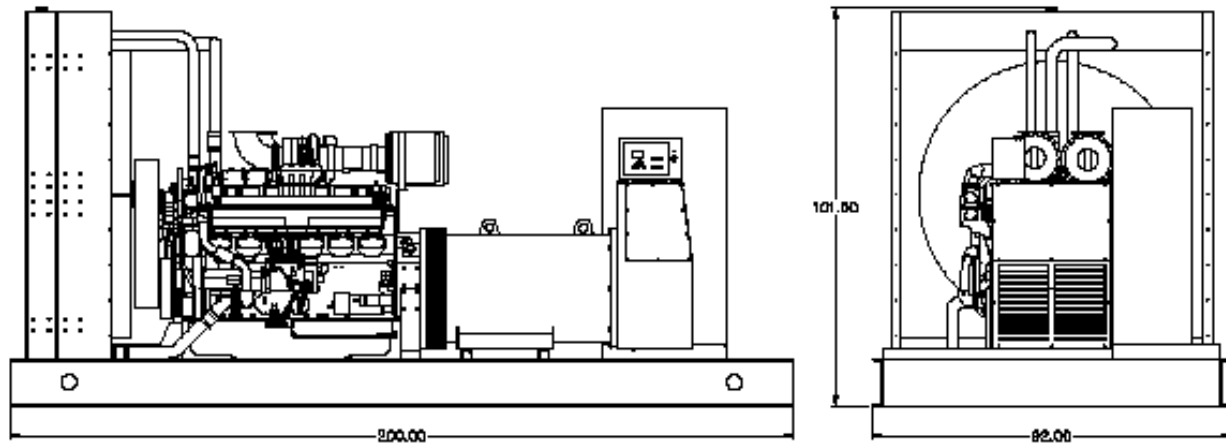
Electric Voltage DC	24
Cold Cranking Amps @ 0°F (-18°C)	1800

Fuel System

Fuel Supply Connection Size:	3/4 NPT
Fuel Return Connection Size:	3/4 NPT
Maximum Fuel Lift: ft (m)	10 (3)
Recommended Fuel:	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	150 (568)

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 2 Certified

Generator Features

- Brushless single bearing
- Automatic Voltage Regulator W/ PMG excitation support
- Over-excitation protection
 - Under-Frequency compensation
- Available Voltages:
 - 480/277 3PH 4 or 12 wire
 - 208/120 3PH 4 or 12 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
- Continuous Displays
 - Frequency
 - Oil pressure
 - Engine temperature
 - Battery voltage
 - Fuel level

Additional Standard Features

- Main Circuit Breaker (mounted)
- Flexible Fuel Connectors
- Battery: 24 volt with rack
- Battery Charger: 24 volt 5 amp
- Pad type vibration mounts
- Jacket water heater: 20°F
- Critical Grade Silencer (mounted)
- 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

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