

JD125-02 Diesel Gen-Set

EPA Tier Level Three



ENGINE TECHNICAL DATA:

60hz

Model:..... 4045HF285
Type:..... 4-Cycle
Aspiration:..... Turbo Charged , Air to Air CAC
Cylinder Arrangement:..... 4cylinder Inline
Displacement – Cu. In. (lit)..... 275 (4.5)
Bore – in. (cm) x stroke – in. (cm)..... 4.19 (10.06) x5.0 (12.7)
Compression Ratio..... 19.0:1
Rated RPM..... 1800

Rating:	Standby	Prime
Kilowatts.....	125.....	120.....
Maximum Power at Rated RPM – bhp (kW).....	197 (147).....	179 (134).....
BMEP: psi (kPa).....	302 (2,085).....	285 (1,964).....

INSTALLATION DATA.

Exhaust System

Gas Temp. (Stack):	°F (°C).....	1076 (580).....	1062 (572).....
Gas Volume at Stack Temp:	CFM (m³/min).....	953 (27.0).....	869 (24.6).....
Maximum Allowable Exhaust Restriction:	in. H2O (kPa).....	30 (7.5).....	30 (7.5).....
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).....	48 (182).....	48 (182).....
Heat Rejection to Coolant:	BTUM (kW).....	4,098 (72).....	3,643 (64).....
Heat Radiated to Ambient:	BTUM (kW).....	1,601 (28.1).....	1,195 (21.0).....

Air Requirements

Aspirating:	CFM (m³/min).....	341 (9.66).....	311 (8.80).....
Air Flow Required for Rad. Cooled Unit:	CFM (m³/min).....	7,845 (222).....	7,845 (222).....
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).....	9.9 (37.5).....	9.2 (34.8).....
At 75% of Power Rating:	gal/hr (lit/hr).....	7.6 (28.8).....	7.1 (26.9).....
At 50% of Power Rating:	gal/hr (lit/hr).....	5.6 (21.2).....	5.1 (19.3).....

Sound Level Data.

Sound Level at:	Full Load	No Load	Full Load	No Load
23ft (7m) Open Unit W/ Std Critical Silencer (dBA).....	79.....	75.....	77.....	74.....
23ft (7m) Sound Attenuated Enclosure (dBA).....	74.....	72.....	70.....	69.....

Dimensions & Weight

Length: In. (cm).....	100(254)
Width: In. (cm).....	44 (112)
Height: In. (cm).....	53 (134)
Weight: lb. (kg).....	2,817 (1,278)

Fluids Capacity

Total Oil System: gal (lit).....	3.9 (14.7)
Engine Jacket Water Capacity: gal (lit).....	3.2 (11.9)
System Coolant Capacity: gal (lit).....	5.4 (20.4)

Electrical System

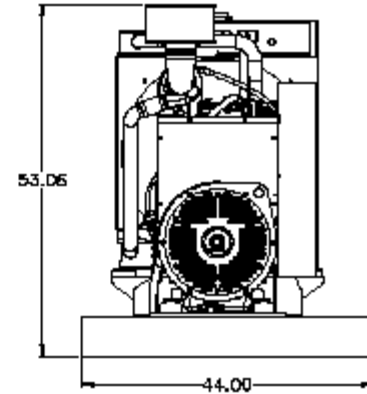
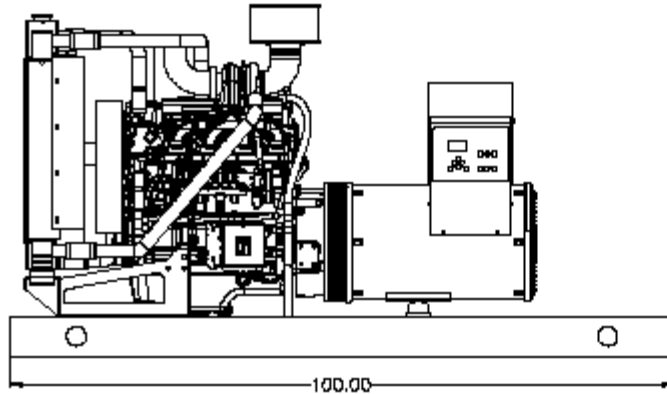
Electric Voltage DC.....	12
Cold Cranking Amps @ 0°F (-18°C).....	800

Fuel System

Fuel Supply Connection Size:.....	½" NPT
Fuel Return Connection Size:.....	½" NPT
Maximum Fuel Lift: ft (m).....	10 (3)
Recommended Fuel:.....	Diesel #2
Total Fuel Flow: gal/hr (lit/hr).....	23.8 (90.1)

Remote Cooling Systems: Consult factory

JD125-02 Diesel Gen-Set



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, OP
- 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 and/or sound attenuated enclosures
- Remote monitoring panels
- PMG Excitation

Distributed By: