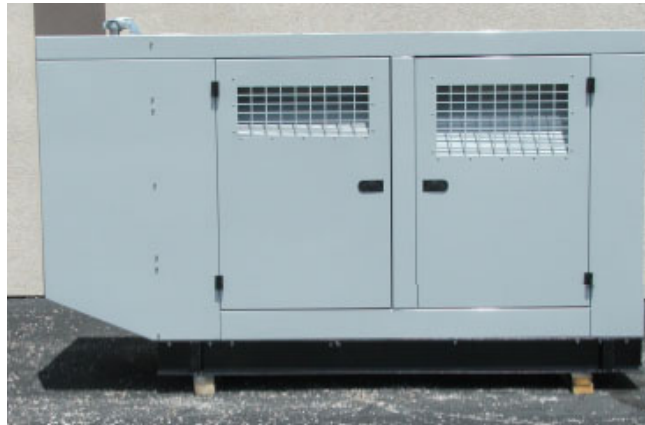


SJ-85

Power When You Need It!



Powered by:



Sample Unit

Generator Ratings @ 1800 RPM

Voltage	Ph	Hz	Standby Output kW (kVA)	Prime Output kW (kVA)	Standby Max Amp Output	Number of Wires
120/240	1	60	85 (85)	77 (96)	354	12
120/208	3	60	85 (106)	77 (96)	295	12
120/240	3	60	85 (106)	77 (96)	256	12
277/480	3	60	85 (106)	77 (96)	128	12

Standard Generator Set Features

- John Deere Diesel Engine Model 4045HF285 Tier 3
- AC, Single bearing direct coupled alternator with class 'H' insulation, sized for 130°C temperature rise.
- Engine and alternator mounted on vibration isolators.
- Radiator sized for 120°F ambient clearance
- High coolant temp., Low oil pressure safety shutdowns.
- Dry type air cleaner.
- 12-VDC starter, engine mounted battery charging alternator, battery cables and rack along with grounding strap.
- Microprocessor based control panel w/ metering, alarms, shut down, under / over frequency & voltage protection.



Optional Equipment

- Weather protective enclosure constructed of marine grade aluminum 0.125 thickness, SS hardware white powder coat paint finish on both sides. Sound insulation resistant to high temperatures, fuel and oil. Hinged, removable, keyed alike doors. Residential rated interior mounted exhaust silencer. Vertical radiator and exhaust discharge oil & coolant drain lines with brass check valves.
- Mainline circuit breaker.
- Digital or analog control panels.
- Automatic transfer switch
- Starting battery
- Automatic battery chargers 6 or 10 amps
- Thermostat controlled jacket water heater
- Low coolant level switch
- Single wall tanks
- UL 142 fuel tanks
- Day tanks
- Water separator fuel filter
- Space heater
- Permanent Magnet Generator (PMG) with voltage regulator upgrade
- Generator drip covers
- 17 Light remote Annunciator panel
- 120V Receptacle for battery charger and / or coolant heater.
- D.O.T trailers, single or dual axle with brakes.
- Enviro - friendly custom color options

*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F (29°C) and an elevation of 1,000 feet (305 meters). Please consult your **Steline** representative for information concerning derates for temperature, altitude & humidity.

SJ-85

Power When You Need It!

Engine Specifications

Model: John Deere Diesel Engine 4045HF285 Tier 3

Maximum power- 126 bhp / @ 1800 rpm
 Cubic capacity- 275 in³ / 4.5 L
 Bore & stroke- 4.17" x 5.00" (106mm x 127mm)
 Turbocharged, 4 cylinder vertical in-line, 4 stroke direct injection

Governor type- Electronic

Frequency regulation: Isochronous, steady-state

Fluids: Oil capacity total system - 16.5 quarts (15.7 liters)

Coolant capacity w/ radiator - 5.5 gallons (20.8 liters)

Fuel Consumption US gallon (liters) / hr @ 1800 rpm

50% load - 3.31 (12.5)
 75% load - 4.75 (17.9)
 100% load - 6.14 (23.2)

General:

Oil filter - Spin-on type
 Air filter- Dry element type
 Electrical system: 12v starter, 65 amps alternator DC output
 Minimum recommended battery size: 1000 CCA

Fuel type: BS 2869: Part 2 1998 Class A2 or ASTM D975 D2

Alternator Specifications

Marathon Electric: Brushless, 4 pole rotating field,
 Voltage regulation: + / - 1%, Volts/Hertz, electronic, EMI filtered
 Class insulation: 'H' to NEMA MG-1-1.66
 Rated temperature standby: 130 C° rise / 40 C° ambient
 Coupling: SAE adapter, flexible disc, direct.
 Load acceptance: One step, 100% per NFPA 110

Features: Self ventilated drip-proof construction. Superior voltage waveform achieved by a 2/3 pitch and skewed rotor. Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life. Compliance with NEMA, IEEE and ANSI standards for temp. rise. Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field. No load to full-load regulation of +/- 2%.

Control Panel Specifications

DGC2020

Microprocessor based, navigation key with large LCD display. Event recording transfer switch control (main failures) SAE J1939 CANBUS communication. Multilingual capability suitable for rental application. Remote communication capability (optional)

Operational features

- Alternator Protection: under / over voltage, under / over frequency.
- Engine protection: Low oil pressure, high coolant temperature, over speed & over crank, sender unit failure, fuel leak / fuel sender failure, battery charger failure.
- All protections are programmable as alarms or pre-alarms
- Operating power: Nominal 12-24 Vdc

- consumption 14.2W run mode
- Metering (ample range): Volts, current, Hz, watts, VA, Pf, oil pressure, coolant temperature, rpm, DC volts, fuel level, engine running time.
- Engine control with timers.
- External remote start input (on or off load)
- 16 programmable contact inputs.
- 7 Contact outputs.

Agency Approvals: UL 508 R CSA C22.2 No 14 NFPA 110

CE Compliance: EC LVD-73/23/EEC EN 61000-6-4:2001 EMC EN 50178:1997 EMC- 89/336/EEC EN 610000 6-2:2001 EMC Immunity

One complete set Owners / Operators, Engine, Alternator and Accessory manuals

Dimensional and Mounting Specifications

inches (mm): 110 (2794) L x 40 (1016) W x 57 (1447.8)H w/ Enclosure Only Less Fuel Tank
Estimated Overall Dry Weight lb. (kg): 2725 (1236) Less Fuel Tank

Note: The above dimensions and weights would change if a sub-base fuel tank was added. An electrical stub area is positioned at the rear of the sub-base fuel tanks. Spacing from rear access cover to the tank is approximately 9 inches (228.6 mm).

Specifications subject to change without notice



15749 Lyons Valley Rd.
 Jamul CA 91935
 www.HardyDiesel.com