



EPA Certified / Stationary Emergency

OUTPUT POWER					sKVA
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	105/105	438	270

Information on optional alternators available upon request.

Overall Size: 88"L x 37"W x 82"H

Approximate Weight: 2,600 lbs.

Note: Dimensions and weights reflect standard open unit and are subject to change.

Standard Features:

- Heavy Duty Steel Base
- Vibration Isolators
- Battery Rack & Cables
- High Ambient Unit Mounted Radiator
- 15 ft. Fuel Line Set
- Spark Arrestor Muffler
- Battery Charging Alternator
- Battery Charger
- PMG Excitation
- 120V/1500W Water Jacket Heater
- Factory Test Prior to Shipment
- Owner's Manual

Miscellaneous Options:

- Automatic Transfer Switch
- Fuel Tanks 150-1000 Gallons

Warranty

2 Year Standard Limited



Analog Controller with Emergency Bypass Key Switch

- Automatic CANBUS Engine Control
- Oil Pressure, Water Temperature, Battery Voltage and RPM Gauges
- Automatic Gauge Zeroing on Shutdown
- AC Voltage, Frequency, Percent of Load, and Run-Time Metering
- 3-Position Auto-Off-Manual Control Switch
- LED Status Lights: Low Oil Pressure, High Temperature, Overcrank, Overspeed, and Engine Start
- Impact-Resistant Polycarbonate Bezel and Epoxy Encapsulated

GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) Elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F)

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

125° RATINGS: 125° apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



Engine Data

Manufacturer	John Deere
Model	4045HF285I
Aspiration	Turbocharged
EPA Tier	3
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-3-4-2
Displacement: L (in. ³)	4.5 (275.0)
Bore: mm (in.)	106.00 (4.19)
Stroke: mm (in.)	127.00 (5.00)
Compression Ratio	19.0:1
BMEP: psi (kPa)	254 (1748)
Gross Horsepower	158
Rated RPM	1800
Governor	Electronic
Speed Regulation	±0.25%

Engine Liquid Capacity

Oil System: qt. (L)	15.5 (14.7)
Cooling System Capacity: gal (L)	2.25 (8.50)

Engine Electrical

Electric Volts: DC	12
Cold Cranking Amps	950
Battery(s) Required	1

Fuel System

Fuel Pump Rate: gal/hr (L/hr)	19.72 (74.71)
Recommended Fuel	Ultra Low Sulfur Diesel

Alternator Data

Manufacturer	Stamford
Type	PMG
Insulation Class	NEMA H
Temperature Rise	150°C Standby
Hertz	60
RPM	1800
Amortisseur Windings	Full
CFM Cooling Required	1308
Voltage Regulator	MX341
Sensing	Single Phase
Voltage Regulation	1.0%

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m ³ /min)	288.00 (8.16)
Maximum Air Intake Restriction	
Clean: in. H ₂ O (kPa)	15.00 (3.75)
Dirty: in. H ₂ O (kPa)	25.00 (6.25)

Exhaust System

Gas Temperature: °F (°C)	1076 (580)
Gas Flow: CFM (m ³ /min)	805.0 (22.8)
Max Back Pressure: in. H ₂ O (kPa)	30.0 (7.5)
Exhaust Outlet Size: in. (mm)	4.0 (101.6)

Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	87.0
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Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1
Fuel Filter(s) Quantity	2

Fuel Consumption

At 100% of Power Rating: gal/hr (L/hr)	8.21 (31.18)
At 75% of Power Rating: gal/hr (L/hr)	6.56 (24.82)
At 50% of Power Rating: gal/hr (L/hr)	4.69 (17.77)
At 25% of Power Rating: gal/hr (L/hr)	2.51 (9.53)

Features

- BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359 compliant
- IP23 enclosure
- Dynamically balanced to exceed BS6861:Part 1 Grade 2.5 vibration standard
- Quality assurance to BS EN ISO 9001
- Self-ventilated and Drip proof construction
- Two-thirds pitch stator and skewed rotor
- Heavy duty bearings
- Fully guarded
- Overexcitation protection
- Under frequency protection
- Analog input
- Overvoltage protection