



"Your Complete Generator Solution"



EPA Certified / Stationary Emergency

OUTPUT POWER					sKVA
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	105/105	438	310

Information on optional alternators available upon request.

Overall Size: 88"L x 37"W x 82"H
Weight: 2,580 lbs.

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
- 5 Amp Battery Charger
- PMG Pilot Exciter
- 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 single-phase units are rated at 1.0 power factor.

STATIONARY EMERGENCY STANDBY: Applies 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.



Engine Data

Manufacturer	John Deere
Model	4045HF285I
Aspiration	Turbocharged
EPA Tier	3
Charge Air Cooling System	Air-to-Air
Arrangement	Inline, 4-Cycle
Firing Order	1-3-4-2
Displacement: L (in. ³)	4.5 (275)
Bore: in. (mm)	4.19 (106)
Stroke: in. (mm)	5.00 (127)
Compression Ratio	19.0:1
BMEP: psi (kPa)	254 (1748)
Crankcase Vent System	Open
Rated RPM	1800
Speed Regulation	±0.25%

Engine Liquid Capacity

Oil System: qt. (L) Including Filter	15.5 (14.7)
Engine Jacket Water: gal (L)	2.25 (8.5)

Engine Electrical

Electric Volts: DC	12
Cold Cracking Amps	800
Battery(s) Required	1

Air Requirements

Air Filter(s) Type	Dry
Engine Air Flow: SCFM (m ³ /min)	288 (8.16)
Maximum Air Intake Restriction	
Dirty: in. H ₂ O (kPa)	25 (6.25)
Clean: in. H ₂ O (kPa)	15 (3.75)

Alternator Data

Manufacturer	Marathon
Type	PMG
Insulation NEMA Rise/Temp	NEMA H/150°C
Hertz	60
Phase	1
RPM	1800
Leads	4
Amortisseur Windings	Full
CFM Cooling Required	700
Voltage Regulator	PM500
Sensing	Single Phase
Voltage Regulation, No Load - Full Load	0.50%

Exhaust System

Gas Temperature: °F (°C)	1076 (580)
Gas Flow: SCFM (m ³ /min)	805 (22.8)
Maximum Exhaust Restriction: in. H ₂ O (kPa)	30 (7.5)
Spark Arrestor Outlet Size: in. (mm)	4.0 (101.6)

Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	87
--	----

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)

Fuel System

ECU	L16 Controller
Fuel Injection Pump	Denso HP3
Governor Type	Electronic
Total Fuel Flow: gal/hr (L/hr)	19.72 (74.71)
Max Fuel Inlet Temperature: °F (°C)	176 (80)
Max Fuel Inlet Restriction: in. H ₂ O (kPa)	80 (20)
Max Fuel Return Pressure: in. H ₂ O (kPa)	80 (20)
Recommended Fuel	Ultra Low Sulfur Diesel

Alternator Features

- NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE & CSA Certified and UL Listed
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Wet wound, epoxied field windings
- Designed to withstand overspeeds of up to 125%
- Hybrid analog/digital voltage regulator
- Under frequency protection
- Under frequency indication light
- Less than one cycle response time
- Over excitation protection
- Over excitation indication light
- Easy access front-panel adjustments
- Over voltage protection shutdown
- Analog input for paralleling