



"Your Complete Generator Solution"



EPA Certified / Stationary Emergency

OUTPUT POWER					sKVA
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	30/30	125	64

Information on optional alternators available upon request.

Overall Size: XX"LxXX"WxXX"H
Weight: XXXXX 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

- 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

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	3029TFG89A
Aspiration	Turbocharged
EPA Tier	4i
Arrangement	Inline, 4-Cycle
Firing Order	1-2-3
Displacement: L (in. ³)	2.9 (177)
Bore: in. (mm)	4.19 (106)
Stroke: in. (mm)	4.3 (110)
Compression Ratio	17.2:1
BMEP: psi (kPa)	104 (714)
Crankcase Vent System	Open
Rated RPM	1800
Speed Regulation	±3-5%

Engine Liquid Capacity

Oil System: qt. (L)	8.5 (8.0)
Engine Jacket Water: gal (L)	1.5 (5.7)

Engine Electrical

Electric Volts: DC	12
Cold Cracking Amps	640
Battery(s) Required	1

Air Requirements

Air Filter(s) Type	Dry
Engine Air Flow: SCFM (m ³ /min)	127 (3.6)
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	250
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)	293 (8.3)
Maximum Exhaust Restriction: in. H ₂ O (kPa)	30 (7.5)
Exhaust Outlet Size: in. (mm)	Xxxxx

Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	92.5
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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)	2.61 (9.88)
At 75% of Power Rating: gal/hr (L/hr)	1.99 (7.53)
At 50% of Power Rating: gal/hr (L/hr)	1.37 (5.18)
At 25% of Power Rating: gal/hr (L/hr)	0.85 (3.18)

Fuel System

Fuel Injection Pump	Stanadyne DB2
Governor Type	Mechanical
Total Fuel Flow: gal/hr (L/hr)	29.44 (111.77)
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