ГА5



"Your Complete Generator Solution"



EPA Certified / Stationary Emergency

OUTPUT POWER			sKVA		
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	55/55	229	115

Information on optional alternators available upon request.

Overall Size: 81"L x 37"W x 69"H Weight: 1,975 lbs.

Standard Features:

Heavy Duty Steel Base Vibration Isolators **Battery Rack & Cables** High Ambient Unit Mounted Radiator 120V/1500W Water Jacket Heater 15 ft. Fuel Line Set Spark Arrestor Muffler

Battery Charging Alternator 5 Amp Battery Charger PMG Pilot Exciter 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 Engine Control Oil Pressure, Water Temperature, Battery Voltage Gauges 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	Perkins
Model	1104D-44TG1
Aspiration	Turbocharged
EPA Tier	3
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-3-4-2
Displacement: L (in.3)	4.4 (268.50)
Bore: mm (in.)	105.00 (4.13)
Stroke: mm (in.)	127.00 (5.00)
Compression Ratio	18.2:1
BMEP: psi (kPa)	140.83 (971.00)
Net Horsepower	84.42
Rated RPM	1800
Governor	Mechanical
Speed Regulation	±0.5%

Engine Liquid Capacity

Oil System: qt. (L)	8.88 (8.40)
Cooling System Capacity: gal (L)	4.36 (16.50)

Engine Electrical

Electric Volts: DC	12
Cold Cracking Amps	925
Battery(s) Required	1

Exhaust System

Gas Temperature: °F (°C)	1059.80 (571.00)
Gas Flow: CFM (m ³ /min)	483.81 (13.70)
Max Exhaust Back Pressure: in. H ₂ O (kPa)	60.20 (15.00)
Spark Arrestor Outlet Size: in. (mm)	3.0 (76.2)

Alternator Data

Manufacturer	Marathon
Туре	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	0.5%

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m ³ /min)	176.57 (5.00)
Cooling Fan Air Flow: CFM (m³/min)	3467.90 (98.20)
Maximum Air Intake Restriction	
Clean: in. H ₂ O (kPa)	20.07 (5.00)
Dirty: in. H ₂ O (kPa)	32.11 (8.00)
Sound Level	
Open Unit Without Exhaust: dBA 3.2 ft (1M)	106.5
Filters and Quantity	
Air Cleaner Quantity	1
Oil Filter(s) Quantity	1
Fuel Filter(s) Quantity	2
Fuel Consumption	

Fuel Consumption

At 100% of Power Rating: gal/hr (L/hr)	4.39 (16.60)
At 75% of Power Rating: gal/hr (L/hr)	3.38 (12.80)
At 50% of Power Rating: gal/hr (L/hr)	2.38 (9.00)
At 25% of Power Rating: gal/hr (L/hr)	1.37 (5.20)

Fuel System

Fuel Injection Type	Direct
Fuel Pump Rate: gal/hr (L/hr)	34.87 (132.00)
Pump Pressure: in. H ₂ O (kPa)	40.13 (10.00)
Recommended Fuel	Low Sulfur Diesel

Cooling System

Rejection to Charge Cooler: kW (BTUM)	46.1 (2621.7)
Rejection to Coolant: kW (BTUM)	66.9 (3804.5)
Coolant Flow: gal/min (L/min)	39.94 (151.20)

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