

"Your Complete Generator Solution"



EPA Certified / Stationary Emergency

OUTPUT POWER				sKVA	
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	80/80	333	230

Information on optional alternators available upon request.

Overall Size: 81"L x 36"W x 69"H

Weight: 2,370 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 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	Perkins
Model	1104D-E44TAG1
Aspiration	Turbocharged
EPA Tier	3
Charge Air Cooling System	Air-to-Air
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	16.2:1
BMEP: psi (kPa)	212.77 (1467.00)
Net Horsepower	121.67
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.25%

Engine Liquid Capacity

Oil System: qt. (L)	8.45 (8.00)
Cooling System Capacity: gal (L)	4.49 (17.00)

Engine Electrical

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

Exhaust System

Gas Temperature: °F (°C)	917.60 (492.00)
Gas Flow: CFM (m³/min)	632.13 (17.90)
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 (m³/min)	271.9 (7.7)		
Cooling Fan Air Flow: CFM (m³/min)	7013.5 (198.6)		
Maximum Air Intake Restriction			
Clean: in. H₂O (kPa)	20.07 (5.00)		
Dirty: in. H₂O (kPa)	32.11 (8.00)		

Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	105.5
- - - - - - - - - -	

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)	6.26 (23.69)
At 75% of Power Rating: gal/hr (L/hr)	4.95 (18.74)
At 50% of Power Rating: gal/hr (L/hr)	3.58 (13.55)
At 25% of Power Rating: gal/hr (L/hr)	N/A

Fuel System

Fuel Injection Type	Direct
Fuel Pump Rate: gal/hr (L/hr)	34.34 (130.00)
Pump Pressure: in. H ₂ O (kPa)	40.13 (10.00)
Recommended Fuel	Low Sulfur Diesel

Cooling System

Rejection to Charge Cooler: kW (BTUM)	13.90 (790.48)
Rejection to Coolant: kW (BTUM)	53.6 (3048.2)
Coolant Flow: gal/min (L/min)	44.65 (169.00)

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