



*"Your Complete Generator Solution"*



### EPA Certified / Stationary Emergency

OUTPUT POWER				
Voltage	Phase	Hertz	kW/kVA	Amps
120/240	1	60	250/250	1042

Information on optional alternators available upon request.

### 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
- 2.5 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	Perkins
Model	1506D-E88TAG3
Aspiration	Turbocharged
EPA Tier	3
Charge Air Cooling System	Air-to-Air
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-5-3-6-2-4
Displacement: L (in. <sup>3</sup> )	8.8 (537.01)
Bore: mm (in.)	112.00 (4.41)
Stroke: mm (in.)	149.00 (5.87)
Compression Ratio	16.1:1
BMEP: psi (kPa)	327.21 (2256.00)
Net Horsepower	369.84
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.25%

## Engine Liquid Capacity

Oil System: qt. (L)	43.32 (41.00)
Cooling System Capacity: gal (L)	11.94 (45.20)

## Engine Electrical

Electric Volts: DC	24
Cold Cracking Amps	2200
Battery(s) Required	2

## Exhaust System

Gas Temperature: °F (°C)	905.0 (485.0)
Gas Flow: CFM (m <sup>3</sup> /min)	2246.0 (63.6)
Max Exhaust Back Pressure: in. H <sub>2</sub> O (kPa)	40.13 (10.00)
Spark Arrestor Outlet Size: in. (mm)	5.0 (127.0)

## 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	1100
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 <sup>3</sup> /min)	889.9 (25.2)
Cooling Fan Air Flow: CFM (m <sup>3</sup> /min)	15538.5 (440.0)
Maximum Air Intake Restriction	
Clean: in. H <sub>2</sub> O (kPa)	14.85 (3.70)
Dirty: in. H <sub>2</sub> O (kPa)	24.88 (6.20)

## Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	100.5
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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)	19.55 (74.00)
At 75% of Power Rating: gal/hr (L/hr)	15.53 (58.80)
At 50% of Power Rating: gal/hr (L/hr)	11.12 (42.10)
At 25% of Power Rating: gal/hr (L/hr)	N/A

## Fuel System

Fuel Injection Type	HEUI
Fuel Pump Rate: gal/hr (L/hr)	10.57 (40.00)
Pump Pressure: in. H <sub>2</sub> O (kPa)	1605.3 (400.0)
Recommended Fuel	Low Sulfur Diesel

## Cooling System

Rejection to Charge Cooler: kW (BTUM)	82.0 (4663.3)
Rejection to Coolant: kW (BTUM)	104.0 (5914.4)
Coolant Flow: gal/min (L/min)	50.2 (190.0)

## 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