



*"Your Complete Generator Solution"*



### EPA Certified / Stationary Emergency

OUTPUT POWER					sKVA
Voltage	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
120/240	1	60	150/150	625	193

Information on optional alternators available upon request.

Overall Size: 98"L x 36"W x 79"H  
Weight: 3,300 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	Perkins
Model	1106D-E70TAG3
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> )	7.0 (427.78)
Bore: mm (in.)	105.00 (4.13)
Stroke: mm (in.)	135.00 (5.32)
Compression Ratio	16.8:1
BMEP: psi (kPa)	252.86 (1743.40)
Net Horsepower	232.36
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.26%

### Engine Liquid Capacity

Oil System: qt. (L)	18.49 (17.50)
Cooling System Capacity: gal (L)	5.55 (21.00)

### Engine Electrical

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

### Exhaust System

Gas Temperature: °F (°C)	824.00 (440.00)
Gas Flow: CFM (m <sup>3</sup> /min)	1105.35 (31.30)
Max Exhaust Back Pressure: in. H <sub>2</sub> O (kPa)	60.20 (15.00)
Spark Arrestor Outlet Size: in. (mm)	4.0 (101.6)

### 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)	540.32 (15.30)
Cooling Fan Air Flow: CFM (m <sup>3</sup> /min)	9963.0 (282.12)
Maximum Air Intake Restriction	
Clean: in. H <sub>2</sub> O (kPa)	16.05 (4.00)
Dirty: in. H <sub>2</sub> O (kPa)	32.11 (8.00)

### Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	98.8
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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)	11.17 (42.30)
At 75% of Power Rating: gal/hr (L/hr)	9.17 (34.70)
At 50% of Power Rating: gal/hr (L/hr)	6.29 (23.80)
At 25% of Power Rating: gal/hr (L/hr)	3.43 (13.00)

### Fuel System

Fuel Injection Type	Electronic CRIN2
Fuel Pump Rate: gal/hr (L/hr)	104.6 (396.0)
Pump Pressure: in. H <sub>2</sub> O (kPa)	40.13 (10.00)
Recommended Fuel	Low Sulfur Diesel

### Cooling System

Rejection to Charge Cooler: kW (BTUM)	37.6 (2138.3)
Rejection to Coolant & Oil: kW (BTUM)	76.8 (4367.5)
Coolant Flow: gal/min (L/min)	44.91 (170.00)

### Alternator Features

<ul style="list-style-type: none"> <li>• NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE &amp; CSA Certified and UL Listed</li> <li>• Self-ventilated and drip proof construction</li> <li>• Two-thirds pitch stator and skewed rotor</li> <li>• Wet wound, epoxied field windings</li> <li>• Designed to withstand overspeeds of up to 125%</li> <li>• Hybrid analog/digital voltage regulator</li> <li>• Under frequency protection</li> <li>• Under frequency indication light</li> <li>• Less than one cycle response time</li> <li>• Over excitation protection</li> <li>• Over excitation indication light</li> <li>• Easy access front-panel adjustments</li> <li>• Over voltage protection shutdown</li> <li>• Analog input for paralleling</li> </ul>
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