Model S-8500
Thermoelectric Generator

The Model S-8500 Thermoelectric Generator contains no moving parts. It is a reliable, low-maintenance source of DC electrical power for any application where regular utilities are unavailable or unreliable.

**KEY DESIGN FEATURES:**
- Automatic Spark Ignition (SI)
- Automatic Fuel Shut-Off (SO)
- Fuel Filter
- Low Voltage Alarm Contacts (VSR)
- Reverse Current Protection
- Certified to CSA Std. T.I.L. R-10; CE

**OPTIONAL FEATURES:**
- Remote Start
- Corrosive Environmental Fuel System
- Cathodic Protection Interface

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**Power Specifications**

<table>
<thead>
<tr>
<th>Power Rating at 20°C (68°F):</th>
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<tbody>
<tr>
<td>460 Watts @ 12 Volts</td>
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<tr>
<td>520 Watts @ 24 Volts</td>
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<tr>
<td>460 Watts @ 48 Volts</td>
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**Output Adjustment Range:**

- 12 V: 11.4–12.6 Volts
- 24 V: 24–30 Volts
- 48 V: 47–57 Volts

**Output:** Terminal block which accepts up to 8 AWG wire. Opening for 1” conduit in base of cabinet.

**Fuel Requirements**

- Natural Gas:
  - 50.4m³/day (1780 Sft³/day)
  - 1000 BTU/Sft³ (377 MJ/Sm³) gas
  - max 115 mg/Sm³ (~170 ppmw) H₂S
  - max 120 mg/Sm³ H₂O
  - max 1% free O₂

- Propane:
  - 76.0 l/day (20.1 US gal/day)

**Max. Supply Pressure:**

- Natural Gas: 344 kPa (50 psi)
- Min. Supply Pressure (NG): 103 kPa (15 psi)
- Min. Supply Pressure (LPG): 166 kPa (24 psi)

**Fuel Connection:**

1/4” MNPT

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**Environmental**

- Ambient Operating Temperature:
  - Max. +55°C (130°F)
  - Min. -40°C (-40°F)

- Unsheltered Conditions:

Please contact GPT for operating conditions below -40°C or above +55°C.

**Construction**

- Cabinet: 304 Stainless Steel (SS)
- Cooling Type: Natural Convection
- Fuel System: Brass, Aluminum & Stainless Steel

**Note:**

Specifications shown are for standard S-8500 configurations. Global Power Technologies (GPT) also offers customized products and systems to accommodate custom voltages, fuel supply systems and operating temperatures.

Specification data stated in this document is subject to change without notice. To verify these specifications are current, please contact your GPT sales representative.

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ISO 9001:2008 REGISTERED
**NOTES:**

- Generator Weight: 274 kg [604 lb]
- Model: S-8500
- Certified to CSA Std. T.I.L. R-10; CE

**Global Power Technologies**

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