The Model 8550 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

**OPTIONAL FEATURES:**
- Corrosive Environmental Fuel System
- Bench Stand
- Ethylene Fueled
- Operation Over 4000m Elevation
- Cathodic Protection Interface

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### Power Specifications

<table>
<thead>
<tr>
<th>Power Rating at 20°C:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>480 Watts @ 12 Volts</td>
<td></td>
</tr>
<tr>
<td>550 Watts @ 24 Volts</td>
<td></td>
</tr>
<tr>
<td>480 Watts @ 48 Volts</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical Output Adjustment Range:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V</td>
<td>11.4–12.6 Volts</td>
</tr>
<tr>
<td>24 V</td>
<td>24–30 Volts</td>
</tr>
<tr>
<td>48 V</td>
<td>47–57 Volts</td>
</tr>
</tbody>
</table>

**Output:** Terminal block which accepts up to 8 AWG wire. Opening for 3/4” conduit in base of cabinet.

### Fuel Requirements

**Natural Gas:**

- Max. Supply Pressure: 172 kPa (25 psi)
- Min. Supply Pressure (NG): 103 kPa (15 psi)
- Min. Supply Pressure (LPG): 140 kPa (20 psi)
- Fuel Connection: 1/4” MNPT

- 48.0 m³/day (1695 Sft³/day)
- 1000 BTU/Sft³ (37.7 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)

### Environmental Ambient Operating Temperature:

- Max. +45°C (115°F)
- Min. -40°C (-40°F)

**Operating Conditions:**

- Unsheltered operation, shaded at >45°C

Please contact GPT for operating conditions below -40°C or above +45°C.

### Construction Materials:

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

**Note:**
Specifications shown are for standard 8550 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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Typical Dimensions

Model 8550

**NOTES:**
- Generator Weight: 102 kg [225 lb]
- Model: 8550

**Specification Sheet**

**67213 R2**

**GLOBAL**

power technologies

OPENING FOR 3/4” CONDUIT 12, 24 OR 48 VDC CUSTOMER LOAD, TERMINAL ACCEPTS UP TO 8 AWG WIRE

FUEL SUPPLY 1/4” MNPT CONNECTION AT GENERATOR

SUPPORT STAND (OPTIONAL)

406mm [16.0”] MOUNTING BOLT HOLES Ø0.56”

406mm [16.0”] MOUNTING BOLT HOLES Ø0.56”

397mm [15.6”] STAND ANCHOR BOLT HOLES Ø0.312”

NOTES:

- Generator Weight: 102 kg [225 lb]
- Model: 8550

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**Typical Dimensions**

**Model 8550**