The Model 1120 Thermoelectric Generator is Class 1, Div 2 or Class 1, Div 1 hazardous area rated. With 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)
- Volt & Amp Meter
- Reverse Current Protection
- Flame Arrestor
- CSA Certification (Class 1, Div 2 Group D, Temp T3)

**OPTIONAL FEATURES:**
- FM Certification (Class 1, Div 1, Temp T3)
- 316 SS Regulator & Fuel Valve
- Cathodic Protection Interface Panel
- Pole Mount or Bench Stand
- Intake Air Filter

### Power Specifications

<table>
<thead>
<tr>
<th>Power Rating at 20°C:</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 Watts @ 6.7 Volts</td>
</tr>
<tr>
<td>100 Watts @ 12 Volts</td>
</tr>
<tr>
<td>100 Watts @ 24 Volts</td>
</tr>
<tr>
<td>100 Watts @ 48 Volts</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Output Adjustment Range:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.7 V up to 11 Volts</td>
</tr>
<tr>
<td>12 V 12–18 Volts</td>
</tr>
<tr>
<td>24 V 24–30 Volts</td>
</tr>
<tr>
<td>48 V 48–60 Volts</td>
</tr>
</tbody>
</table>

Output: Terminal block which accepts up to 00 AWG wire. Opening for two 3/4" NPT ports in base of electronics enclosure.

### Fuel Requirements

- Natural Gas:
  - 8.8 m³/day (311 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:
  - 11.4 l/day (3.0 US gal/day)

### Environmental

**Ambient Operating Temperature:**
- Max. +45°C (115°F)
- Min. -20°C (-4°F)

**Operating Conditions:**
Unsheltered operation certified for use in hazardous areas.

Please contact GPT for operating conditions below -20°C or above +45°C.

### Construction

**Materials:**
- Cabinet: 316 Stainless Steel (SS)
- Cooling Type: Natural Convection
- Fuel System: Aluminum & Stainless Steel

**Note:**
Specifications shown are for standard 1120 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.
Global Power Technologies

67204 R4

Typical Dimensions

Model 1120

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FUEL SUPPLY 1/4” MNPT CONNECTION AT GENERATOR

OPENING FOR 3/4” CONDUIT 6.7, 12, 24 OR 48 VDC CUSTOMER LOAD. TERMINAL ACCEPTS UP TO 00 AWG WIRE

NOTES:

Generator Weight: 130 kg [286 lb] Model: 1120

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