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

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**Power Specifications**

<table>
<thead>
<tr>
<th>Power Rating at 20ºC:</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>

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**Output Adjustment Range:**

- 6.7 V up to 11 Volts
- 12 V 12–18 Volts
- 24 V 24–30 Volts
- 48 V 48–60 Volts

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**Fuel Requirements**

- Natural Gas:
  - 8.8 m³/day (311 ft³/day)
  - 1000 BTU/ft³ (3.27 MJ/m³) gas
  - max 115 mg/m³ (-170 ppmv) H₂S
  - max 120 mg/m³ H₂O
  - max 1% free O₂

- Propane:
  - 1.4 l/day (3.0 US gal/day)

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**Environmental Specifications**

- Max. +45ºC (115ºF)
- Min. -20ºC (-4ºF)
- Operating Conditions:
  - Unsheltered operation certified for use in hazardous areas.

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**Construction Details**

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

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**Specifications shown are for standard 1120 configurations. Gentherm Global Power Technologies (GPT) also offers customized products and systems to accommodate custom voltages, fuel supply systems and operating temperatures.**

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**Note:**

Specifications shown in this document are subject to change without notice. To verify these specifications are current, please contact your GPT sales representative.

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**E:** gptsales@gentherm.com
**W:** www.genthermglobalpower.com

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**ISO 9001:2008 REGISTERED**
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

SUPPORT STAND (OPTIONAL)

NOTES:

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

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Typical Dimensions

Model 1120