MODEL 5120
Thermoelectric Generator

The Model 5120 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)
- Volt & Amp Meter (6.7V excluded)
- Reverse Current Protection

OPTIONAL FEATURES:
- Cathodic Protection Interface
- Pole Mount or Bench Stand
- Corrosive Environmental Fuel System
- Flame Arrestor
- Marine Service
- Remote Start
- High BTU Gas Pack

Power Specifications

<table>
<thead>
<tr>
<th>Power Rating at 20ºC:</th>
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<tbody>
<tr>
<td>120 Watts @ 6.7 Volts</td>
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<tr>
<td>108 Watts @ 24 Volts</td>
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Electrical

<table>
<thead>
<tr>
<th>Output Adjustment Range:</th>
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<tbody>
<tr>
<td>6.7 V up to 11 Volts</td>
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<tr>
<td>12 V 12–18 Volts</td>
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<tr>
<td>24 V 24–30 Volts</td>
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<tr>
<td>48 V 48–60 Volts</td>
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Environmental: Ambient Operating Temperature:
- Max. +45ºC (115ºF)
- Min. -40ºC (-40ºF)

Operating Conditions:
Unsheltered operation

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

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

Fuel Requirements

<table>
<thead>
<tr>
<th>Natural Gas:</th>
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<tbody>
<tr>
<td>8.8m³/day (311 Sft³/day) of Std. 1000 BTU/Sft³ (377 Mj/Sm³) gas</td>
</tr>
<tr>
<td>1200–1500 BTU/Sft³ (45.2–56.5 MJ/Sm³) gas</td>
</tr>
<tr>
<td>max 115 mg/Sm³ (~170 ppmw) H₂S</td>
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<tr>
<td>max 120 mg/Sm³ H₂O</td>
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<tr>
<td>max 1% free O₂</td>
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<table>
<thead>
<tr>
<th>Propane:</th>
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<tbody>
<tr>
<td>11.4 l/day (3.0 US gal/day)</td>
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</table>

Max. Supply Pressure: 172 kPa (25 psi)
Min. Supply Pressure NG: 69 kPa (10 psi)
Min. Supply Pressure LPG: 103 kPa (15 psi)
Fuel Connection: 1/4" MNPT

Note:
Specifications shown are for standard 5120 configurations. Gentherm 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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W www.genthermglobalpower.com
OPENING FOR 3/4” CONDUIT 6.7, 12, 24 OR 48 VDC CUSTOMER LOAD. TERMINAL ACCEPTS UP TO 8 AWG WIRE

FUEL SUPPLY 1/4” MNPT CONNECTION AT GENERATOR

SUPPORT COLUMN (OPTIONAL) 3” SCH. 40 PIPE

267mm [10.5"] ANCHOR BOLT CENTERS Ø0.312"

457mm [18.0"] ANCHOR BOLT CENTERS Ø0.312"

NOTES:

Generator Weight: 60 kg [132 lb]  Model: 5120

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ISO
9001:2008
REGISTERED

Typical Dimensions

Model 5120