Thermoelectric Generator

MODEL 5060
Thermoelectric Generator

The Model 5060 Thermoelectric Generator contains no moving parts. It is a reliable, low-maintenance source of DC electrical power for applications where grid power is 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

Power Specifications

<table>
<thead>
<tr>
<th>Power Rating at 20°C:</th>
<th>60 Watts @ 6.7 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>54 Watts @ 12 Volts</td>
</tr>
<tr>
<td></td>
<td>54 Watts @ 24 Volts</td>
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<tr>
<td></td>
<td>54 Watts @ 48 Volts</td>
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</tbody>
</table>

Electrical

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

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

Fuel Requirements

<table>
<thead>
<tr>
<th>Natural Gas:</th>
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<tbody>
<tr>
<td>4.4 m³/day (155 Sft³/day)</td>
</tr>
<tr>
<td>1000 BTU/Sft³ (377 MJ/m³) gas</td>
</tr>
<tr>
<td>max 115 mg/Sm³ (~170 ppmw) H₂S</td>
</tr>
<tr>
<td>max 120 mg/Sm³ H₂O</td>
</tr>
<tr>
<td>max 1% free O₂</td>
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</table>

<table>
<thead>
<tr>
<th>Propane:</th>
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<tbody>
<tr>
<td>5.7 l/day (1.5 US gal/day)</td>
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</tbody>
</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

Environmental

<table>
<thead>
<tr>
<th>Ambient Operating Temperature:</th>
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<tbody>
<tr>
<td>Max. +45°C (115°F)</td>
</tr>
<tr>
<td>Min. -40°C (-40°F)</td>
</tr>
</tbody>
</table>

Operating Conditions:
Unsheltered operation

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 & SS

Note:
Specifications shown are for standard 5060 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

ISO 9001:2008 REGISTERED
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

ANCHOR BOLT CENTERS Ø0.312''

267mm [10.5'']

372mm [14.6'']

629mm [24.8'']

988mm [38.9'']

1936mm [76'']

NOTES:

Generator Weight: 41 kg [90 lb]  
Model: 5060

Gentherm Global Power Technologies  
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Calgary, Alberta, Canada T2C 5K7

Authorized Distributor:  
Linc Energy Systems, Inc.  

Typical Dimensions  
Model 5060