The S-1100 Thermoelectric Generator is IECEx, ATEX, UL (Class 1, Zone 1) and CSA (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)
- Output Voltage & Current 4–20 mA Signal
- Digital Volt & Amp Meter
- Flame Arrestors
- Reverse Current Protection

**OPTIONAL FEATURES:**
- Intake Air Filter
- Start-up Battery
- Stand

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### Power Specifications

| Power Rating at 20°C: | 100 Watts @ 12 Volts | 100 Watts @ 24 Volts |

### Electrical

| Output Adjustment Range: | 12 V | 11.5–15.5 Volts | 24 V | 23.0–31.0 Volts |

**Output:** Terminal block which accepts up to 6 AWG (up to 16mm²) wire. Opening for three 1” NPT ports in electrical housing.

### Fuel Requirements

- **Natural Gas:**
  - 8.4m³/day (295 Sft³/day)
  - 1000 BTU/Sft³ (377 MJ/Sm³) gas
  - max 115 mg/Sm³ (~170 ppmw) H₂S
  - max 120 mg/Sm³ H₂O
- **Propane:**
  - 10.8 l/day (2.85 US gal/day)
  - 172 kPa (25 psi)
  - Min. Supply Pressure: 103 kPa (15 psi)
  - Fuel Connection: 1/4” MNPT

### Environmental

**Ambient Operating Temperature:**
- Max. +60°C (140°F)
- Min. -40°C (-40°F)*

**IECEx, ATEX and UL certifications apply down to -20°C.**

### Operating Conditions:

- Unsheltered operation, certified for use in hazardous areas.
- Operating Altitude: Up to 3,000m

### Certifications

**IECEx, ATEX**
- • II 2 G Ex db IIA T3 Gb
- • -20°C (-4°F) to +60°C (140°F)

**CSA**
- • Class 1, Div 1 GR D T3
- • -40°C (-40°F) to +60°C (140°F)
  - • CSA TIL R-10

**UL**
- • Class 1, Zone 1 AEx db IIA T3 Gb
- • -20°C (-4°F) to +60°C (140°F)

**Note:** Specification data stated in this document is subject to change without notice. To verify these specifications are current, please contact your GPT sales representative. Data based on standard conditions: 15°C (59°F), one atm.

* Please contact GPT for use in ambient temperatures below -10°C (14°F).
NOTES:

Generator Weight: 178 kg [393 lb]
Model: S-1100

Typical Dimensions

Model S-1100