MODEL S-1100
Hazardous Area Thermoelectric Generator

The S-1100 Thermoelectric Generator is IECEx, ATEX, ETL (US) (Class 1, Zone 1) and ETL (Canada) (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

### Power Specifications

**Power Rating at 20ºC:**
- 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)
- 103 kPa (15 psi)

**Fuel Connection:** 1/4" MNPT

### Construction

**Enclosures:** Cast Aluminum
**Cooling Type:** Natural Convection
**Fuel System:** Aluminum & Stainless Steel
**Cabinet:** Stainless Steel

### Environmental

**Ambient Operating Temperature:**
- Max. +60ºC (140ºF)
- Min. -40ºC (-40ºF)*

IECEx, ATEX and ETL (US) certifications apply down to -20ºC*.

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**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
- -20ºC (-4°F) to +60ºC (140ºF)*

**ETL (Canada)**
- Class 1, Div 1 GR D T3
- -40ºC (-40°F) to +60ºC (140ºF)
- CSA TIL R-10

**ETL (US)**
- Class 1, Zone 1 AEx db II A T3 Gb
- -20ºC (-4°F) to +60ºC (140ºF)*

**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: 15ºC (59ºF), one atm. Please contact GPT for use in ambient temperatures below -10ºC (14ºF). *-18ºC to 40ºC with battery option
NOTES:

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

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Typical Dimensions Model S-1100