

## MODEL S-1100

The S-1100 Thermoelectric Generator is IECEX, ATEX, ETL (US) (Class I, Zone I) and ETL (Canada) (Class I, Div I) 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 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



## SPECIFICATIONS

### POWER SPECIFICATIONS

#### POWER RATING AT 20°C (68°F)

100 Watts @ 12 Volts  
100 Watts @ 24 Volts

### ELECTRICAL

#### OUTPUT ADJUSTMENT RANGE

12 Volts    11.5–15.5 Volts  
24 Volts    23.0–31.0 Volts

**Output:** Terminal block which accepts up to 6 AWG (up to 16mm<sup>2</sup>) wire. Opening for three 1" NPT ports in electrical housing.

### FUEL REQUIREMENTS

#### NATURAL GAS

8.4m<sup>3</sup>/day (295 Sft<sup>3</sup>/day)  
1000 BTU/Sft<sup>3</sup> (37.7 MJ/Sm<sup>3</sup>) gas  
max 115 mg/Sm<sup>3</sup> (~170 ppmw) H<sub>2</sub>S  
max 120 mg/Sm<sup>3</sup> H<sub>2</sub>O

#### PROPANE

10.8 L/day (2.85 US gal/day)

#### NATURAL GAS/PROPANE

Max. Supply Pressure: 172 kPa (25 psi)  
Min. Supply Pressure: 103 kPa (15 psi)  
Fuel Connection: 1/4" Female NPT

### ENVIRONMENTAL

#### AMBIENT OPERATING TEMPERATURE

Max. +60°C (140°F)  
Min. -40°C (-40°F)\*

IECEX, ATEX and ETL (US) certifications apply down to -20°C\*

#### OPERATING CONDITIONS

Unsheltered operation. Certified for use in hazardous areas.

#### OPERATING ALTITUDE

Up to 3,000m

### CONSTRUCTION

#### MATERIALS

Enclosures: Cast Aluminum  
Cooling Type: Natural Convection

Fuel System: Aluminum & Stainless Steel  
Cabinet: Stainless Steel

### CERTIFICATIONS

#### IECEX, ATEX

II 2 G Ex db IIA T3 Gb  
-20°C (-4°F) to 60°C (140°F)\*

#### ETL (Canada)

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

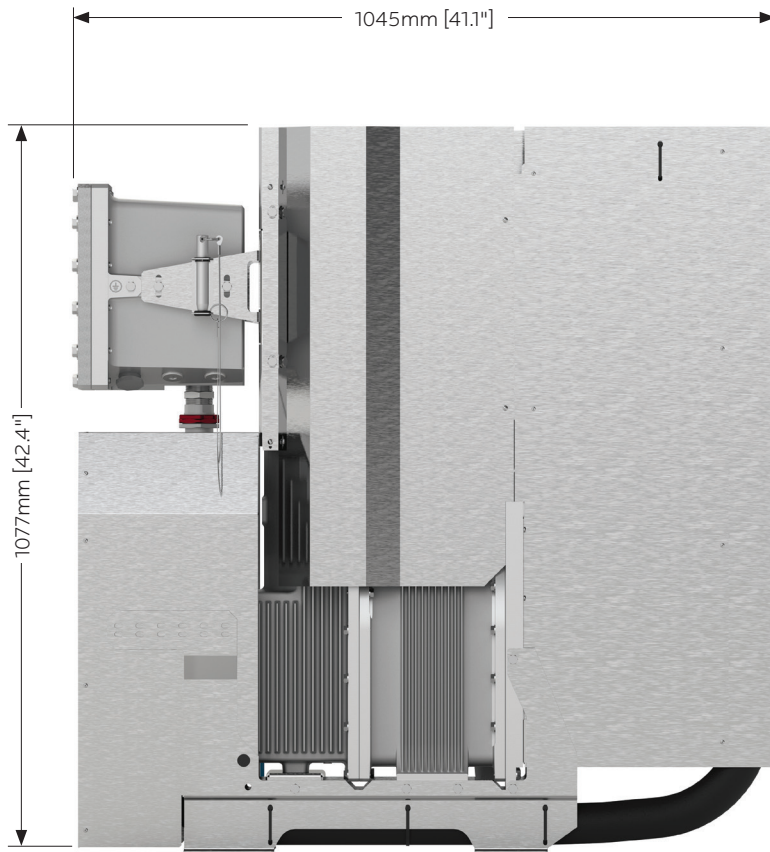
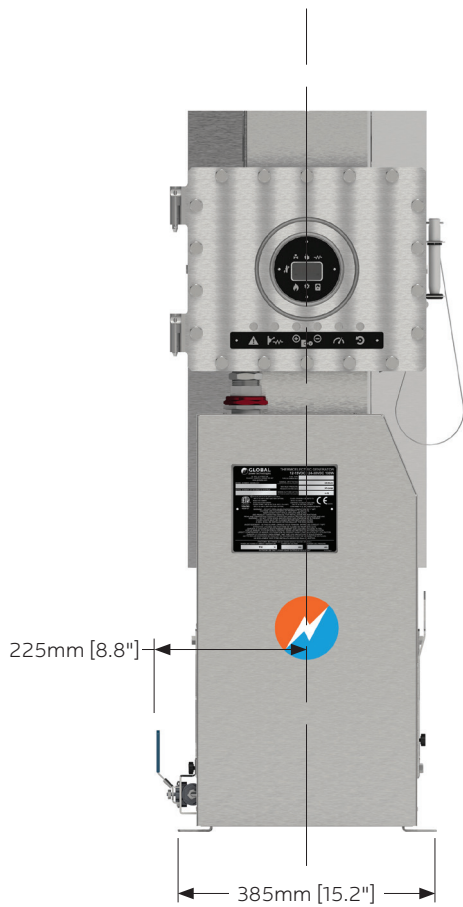
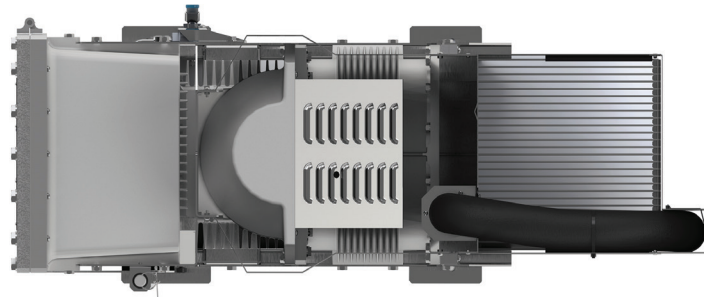
#### ETL (US)

Class I, Zone I, AEx db IIA T3 Gb  
-20°C (-4°F) to 60°C (140°F)\*

### NOTES

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).

\*-18°C to 40°C with battery option.



**NOTES:**  
Generator Weight: 178 kg [393 lb]

**ISO**  
9001:2015  
REGISTERED