

MODEL S-1100

Hazardous Area Thermoelectric Generator

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



Specification Sheet

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

	Propane:
	10.8 l/day (2.85 US gal/day)
Max. Supply Pressure:	172 kPa (25 psi)
Min. Supply Pressure:	103 kPa (15 psi)
Fuel Connection:	1/4" MNPT

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

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
	<ul style="list-style-type: none"> • II 2 G Ex db IIA T3 Gb • -20°C (-4°F) to +60°C (140°F)

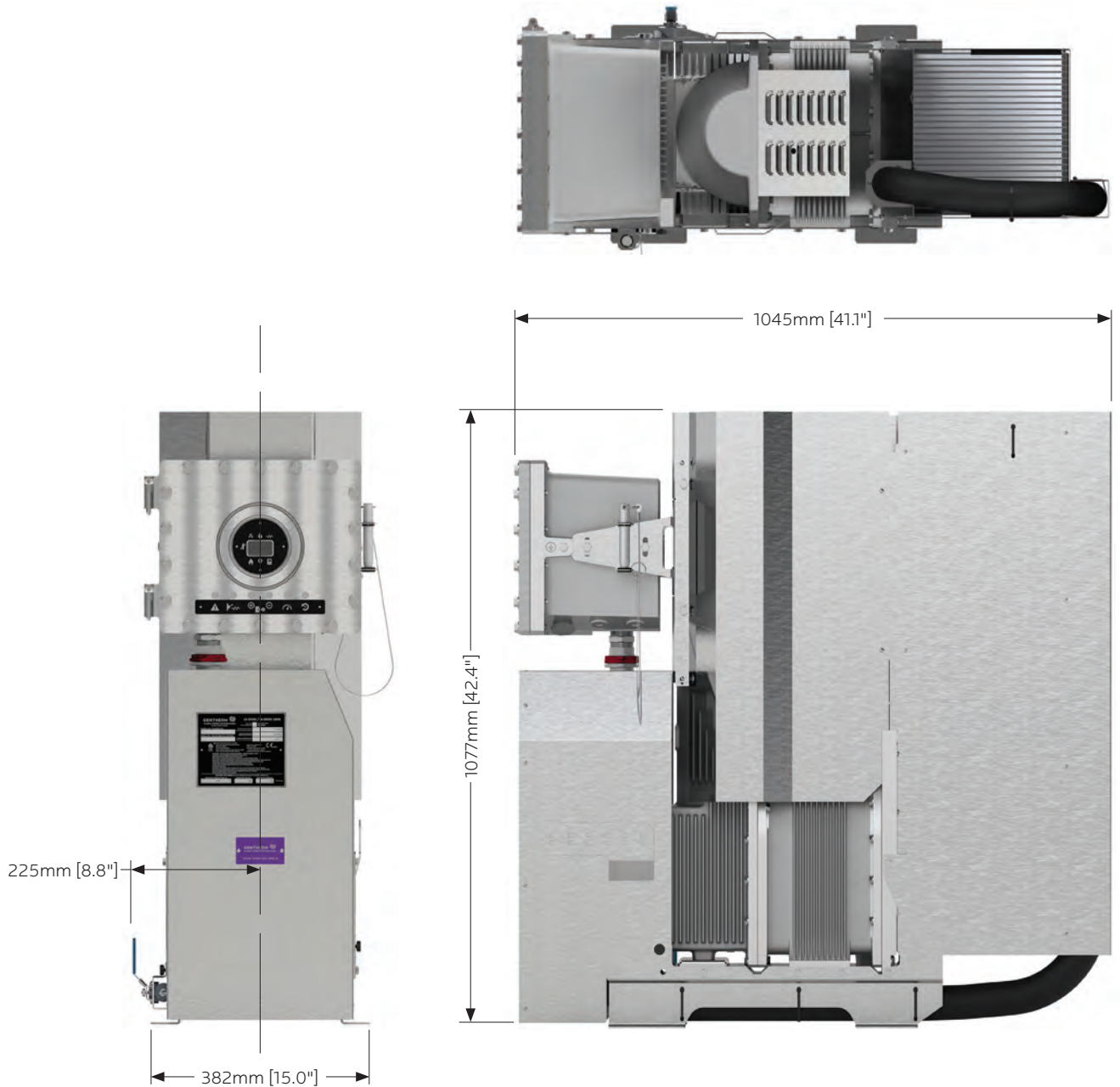
CSA
<ul style="list-style-type: none"> • Class 1, Div 1 GR D T3 • -40°C (-40°F) to +60°C (140°F) • CSA TIL R-10

UL
<ul style="list-style-type: none"> • 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

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