

# MODEL S-8500

## Thermoelectric Generator

The Model S-8500 Thermoelectric Generator contains 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)
- ✓ Reverse Current Protection
- ✓ Certified to CSA Std. T.I.L. R-10; CE

### OPTIONAL FEATURES:

- ✓ Remote Start
- ✓ Corrosive Environmental Fuel System
- ✓ Cathodic Protection Interface



Power Specifications	Power Rating at 20°C (68°F):
	460 Watts @ 12 Volts
	520 Watts @ 24 Volts
	460 Watts @ 48 Volts

Electrical	Output Adjustment Range:
	12 V    11.4–12.6 Volts
	24 V    24–30 Volts
	48 V    47–57 Volts

Output: Terminal block which accepts up to 8 AWG wire.  
Opening for 1" conduit in base of cabinet.

Fuel Requirements	Natural Gas:
	50.4m <sup>3</sup> /day (1780 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
	max 1% free O <sub>2</sub>
	Propane:
	76.0 l/day (20.1 US gal/day)

Max. Supply Pressure: 344 kPa (50 psi)  
Min. Supply Pressure (NG): 103 kPa (15 psi)  
Min. Supply Pressure (LPG): 166 kPa (24 psi)  
Fuel Connection: 1/4" MNPT

Environmental	Ambient Operating Temperature:
	Max. +55°C (130°F)
	Min. -40°C (-40°F)

Operating Conditions:  
Unsheltered operation

Please contact GPT for operating conditions below -40°C or above +55°C.

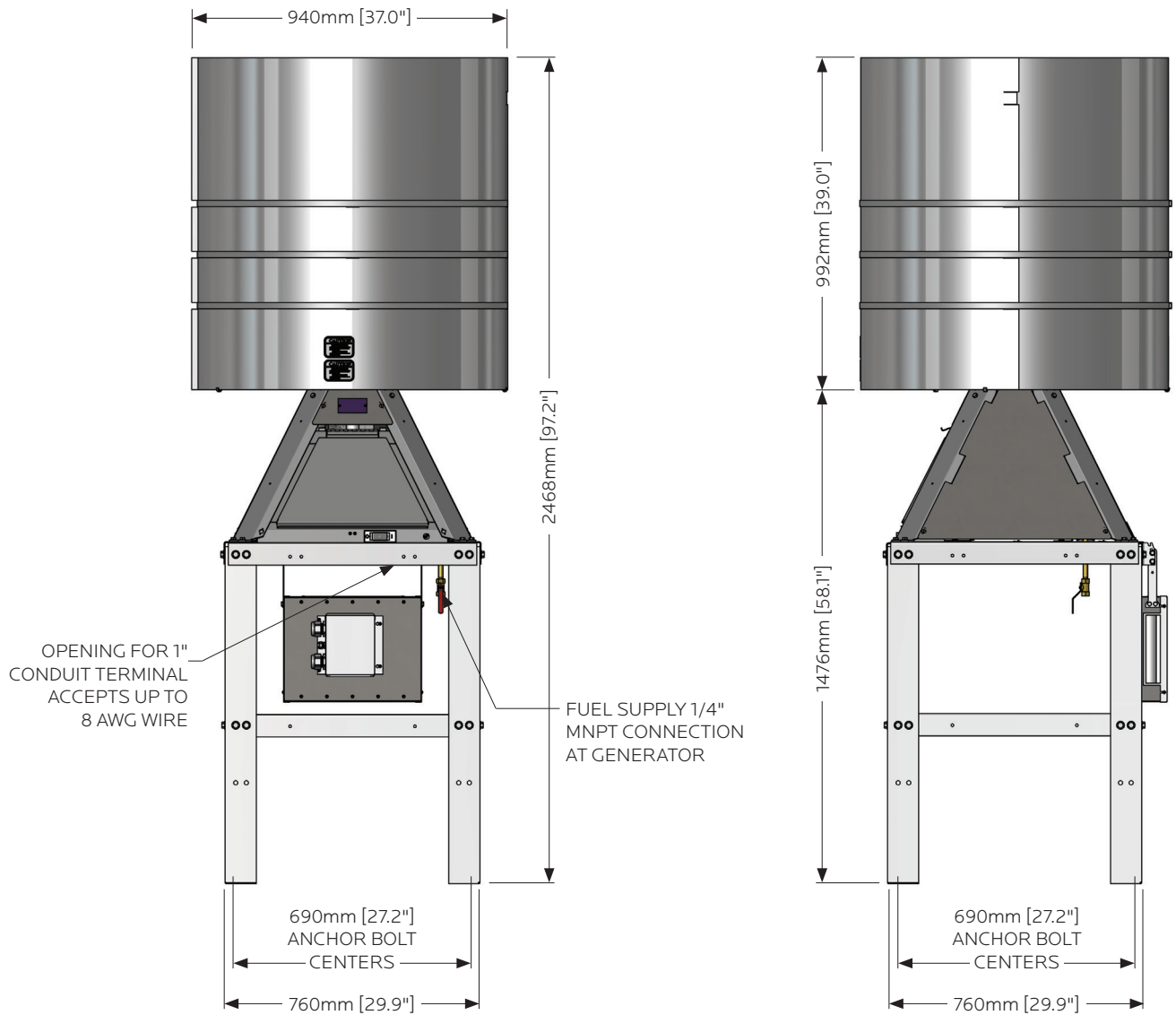
Construction	Materials:
	Cabinet: 304 Stainless Steel (SS)
	Cooling Type: Natural Convection
	Fuel System: Brass, Aluminum & Stainless Steel

#### Note:

Specifications shown are for standard S-8500 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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**NOTES:**

Generator Weight: 274 kg [604 lb]

Model: S-8500

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