

# MODEL 1500

## Hazardous Area Thermoelectric Generator

The Model 1500 Thermoelectric Generator is Class 1, Div 2 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)
- ✓ CSA Certification
- ✓ Reverse Current Protection
- ✓ Class 1, Div 2, Group D, Temp T3
- ✓ Volt & Amp Meter
- ✓ Flame Arrestor



Power Specifications	Power Rating at 20°C:
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500 Watts @ 24 Volts

Electrical	Output Adjustment Range:
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24 V      24-30 Volts

Output: Terminal block which accepts up to 00 AWG wire.  
Opening for two 3/4" conduit in base of cabinet.

Fuel Requirements	Natural Gas:
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48.0m<sup>3</sup>/day (1695 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:
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n/a at this time

Max. Supply Pressure: 172 kPa (25 psi)

Min. Supply Pressure: 103 kPa (15 psi)

Fuel Connection: 1/4" MNPT

Environmental	Ambient Operating Temperature:
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Max. +45°C (115°F)

Min. -40°C (-40°F)

Operating Conditions:
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Unsheltered operation

Please contact GPT for operating conditions below -40°C or above +45°C.

Construction	Materials:
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Cabinet: 316 Stainless Steel (SS)

Cooling Type: Natural Convection

Fuel System: Aluminum & Stainless Steel

### Note:

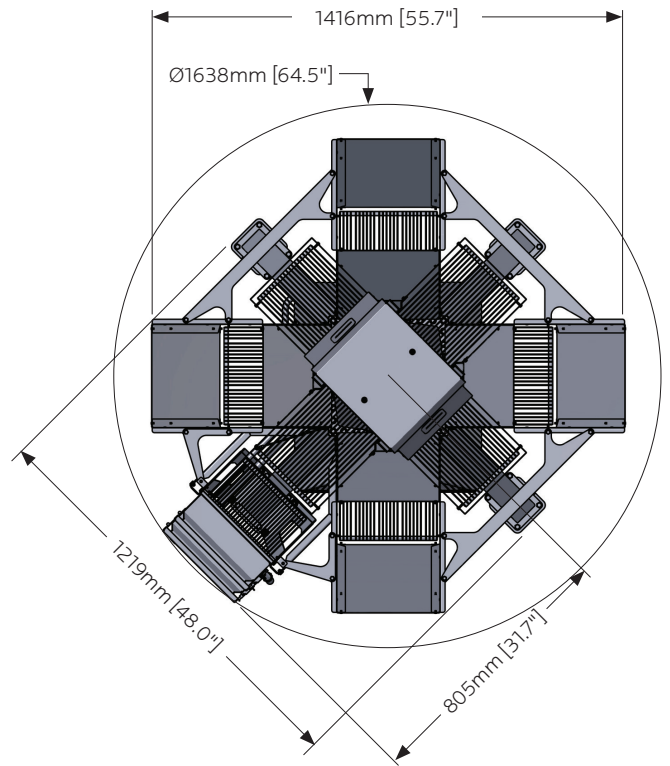
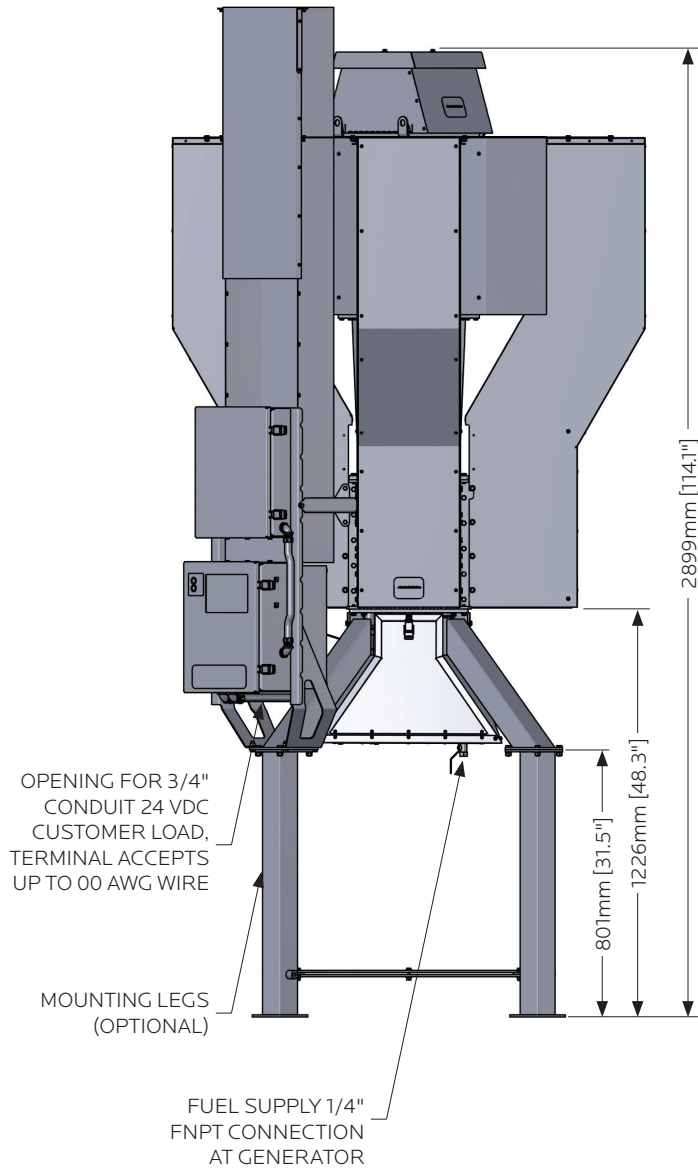
Specifications shown are for standard 1500 configurations. Gentherm Global Power Technologies (GPT) also offers customized products and systems to accommodate custom voltages, fuel supply systems and operating temperatures.

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: 700 kg [1530 lb]

Model: 1500



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Typical Dimensions

Model 1500

**ISO**  
9001:2008  
REGISTERED