

# Model 1500 Thermoelectric Generators



## Hazardous Area Generator

Gentherm Global Power Technologies' \* (GPT) Model 1500 Thermoelectric Generator is Class 1, Div II 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.

## Power Specification

Power Rating at 20°C  
500 Watts at 24 volts

## Electrical

Adjustment: 24 V 24 - 30 Volts

Reverse current protection included.

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

## Standard Features

- Automatic Spark Ignition (SI)
- Automatic Fuel Shut-off (SO)
- Fuel Filter
- Low Voltage Alarm Contacts (VSR)
- CSA Certification
- Class 1, Div II, Group D, Temp T3

Note: Specifications shown are for standard configurations. Gentherm Global Power Technologies' \* (GPT) Integrated Systems Engineering Department is available to design custom voltages, fuel supply systems and non-standard operating temperatures.

Specification data stated in this document is subject to change without notice. To verify these specifications are current, contact your Gentherm Global Power Technologies (GPT) sales representative.

\* Formerly Global Thermoelectric

## Fuel

**Natural Gas:** 48.0 m<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 ppm) /H<sub>2</sub>S  
max 120 mg/Sm<sup>3</sup>H<sub>2</sub>O

**Propane:** 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 Operation Temperature: Max. +45°C (115°F) Min. -40°C (-40°F).  
Operating Conditions: Unsheltered operation  
Please contact GPT for operating conditions below -40°C or above +45°C.

## Materials of Construction

Cabinet: 316 SS  
Cooling Type: Natural Convection  
Fuel System: Aluminum & Stainless Steel

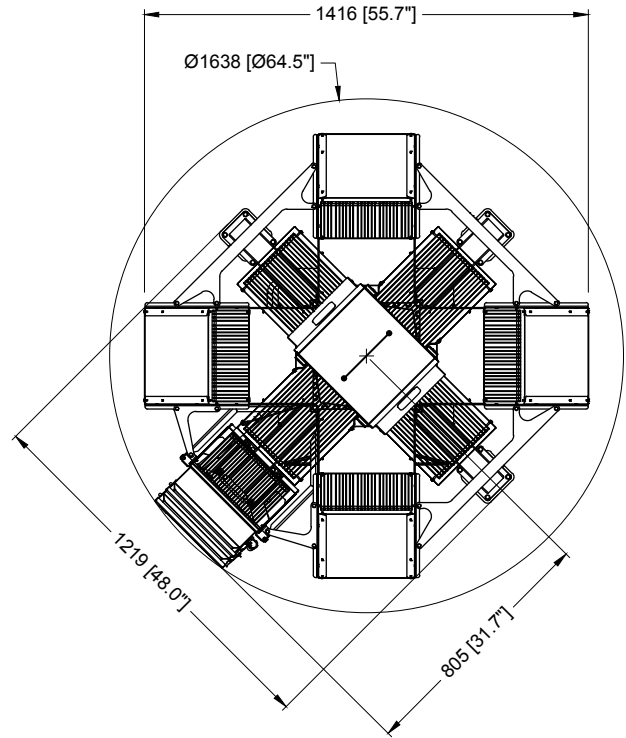
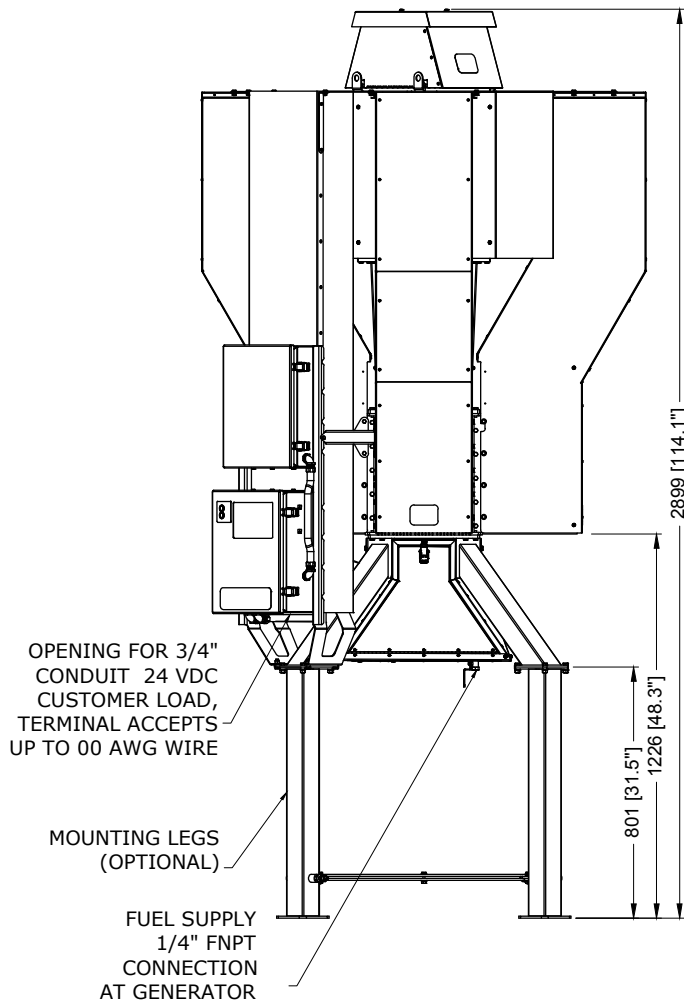


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# Typical Installation



**NOTES:**

1. GENERATOR WEIGHT: 700 kg [1530 lb]
2. DIMENSIONS IN mm [INCHES].

MODEL: 1500  
 DRW: 42362 rev2



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