



# Model 8550 Thermoelectric Generators

Gentherm Global Power Technologies' \* (GPT) Model 8550 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.

## Power Specifications

Power Rating at 20°C  
 480 Watts at 12 Volts  
 550 Watts at 24 Volts  
 480 Watts at 48 Volts

## Electrical

Adjustment:	12 V	11.4 - 12.6 Volts
	24 V	24 - 30 Volts
	48 V	47 - 57 Volts

Reverse current protection included.

Output: Terminal block which accepts up to 8 AWG wire. Opening for 3/4" conduit in the base of the cabinet.

## 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  
 max 1% free O<sub>2</sub>

**Propane:** 7 6.0l/day (20.1 US gal/day)  
 Max. Supply Pressure: 172 kPa (25 psi)  
 Min. Supply Pressure (NG): 103 kPa (15 psi)  
 Min. Supply Pressure (LPG): 140 kPa (20 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: 304 SS  
 Cooling Type: Natural Convection  
 Fuel System: Brass, Aluminum & SS

### Standard Features

- Automatic Spark Ignition (SI)
- Automatic Fuel Shut-off (SO)
- Fuel Filter
- Low Voltage Alarm Contacts (VSR)

### Optional Features

- Cathodic Protection Interface
- Bench Stand
- Ethylene fuelled
- Operation over 4000m elevation

**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

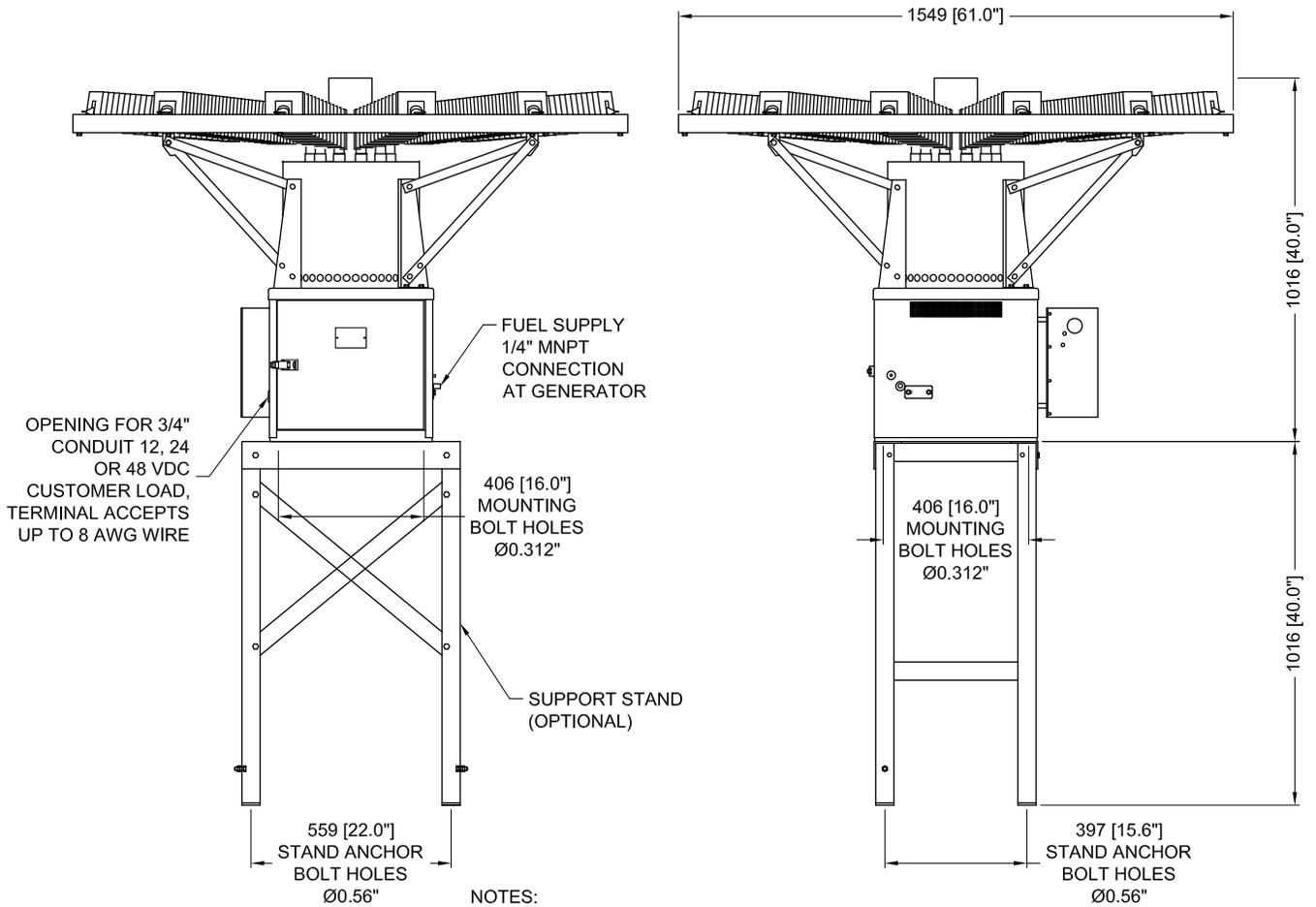


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# Typical Installation



42361 rev1

- NOTES:
1. GENERATOR WEIGHT: 102 kg [225 lb]
  2. DIMENSIONS IN mm [INCHES].