

Model S-8500 Thermoelectric Generators



Gentherm Global Power Technologies' * (GPT) 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.

Power Specifications

Power Rating at 20°C
460 Watts at 12 Volts
520 Watts at 24 Volts
460 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 1" conduit in the base of the cabinet.

Fuel

Natural Gas: 50.4 m³/day (1780 Sft³/day)
1000 BTU/Sft³ (37.7 MJ/SM³) gas
max 115 mg/Sm³ (~170 ppm) H₂S
max 120 mg/Sm³ H₂O
max 1% free O₂

Propane: 76.0l/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 Operation Temperature: Max. +55°C (130°F) Min. -40°C (-40°F).
Operating Conditions: Unsheltered operation, shaded at > 45°C.
Please contact GPT for operating conditions below -40°C or above +55°C.

Materials of Construction

Cabinet: 304 SS
Cooling Type: Natural Convection
Fuel System: Brass, Aluminum & SS

Certified To CSA Std T.I.L. R-10

Standard Features

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

Optional Features

- Cathodic Protection Interface
- Remote Start
- Corrosive Environment Fuel System

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



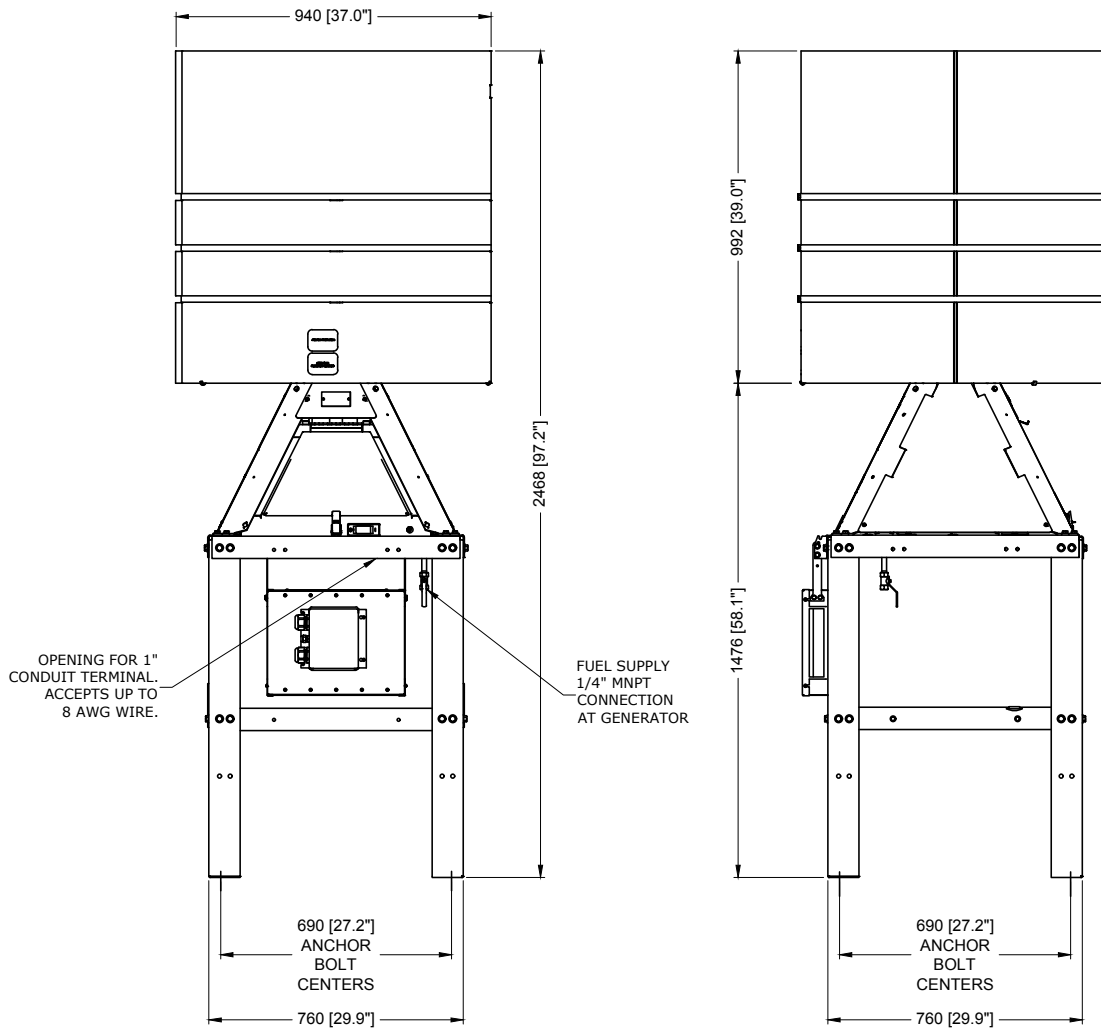
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Typical Installation



- NOTES:
1. GENERATOR WEIGHT: 274 kg [604 lb]
 2. DIMENSIONS IN mm [INCHES].

MODEL: S-8500
 DRW: 42425 REV2



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