

Model P-5100 Thermoelectric Generators



Gentherm Global Power Technologies' * (GPT) Model P-5100 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
100 Watts at 6.7 Volts
100 Watts at 14 Volts
100 Watts at 27 Volts

Electrical

Adjustment:	6.7 V	4 - 7.5 Volts
	12 V	12 - 18 Volts
	24 V	24 - 30 Volts

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

Fuel

Natural Gas:	9.4 m ³ /day (332 ft ³ /day) of 1000 BTU/ft ³ (37.7 MJ/M ³) gas max 115 mg/m ³ (~170 ppm) H ₂ S max 120 mg/m ³ H ₂ O max 1% free O ₂
Propane:	13.8 l/day (3.6 US gal/day)
Max. Supply Pressure:	344 kPa (50 psi)
Min. Supply Pressure:	103 kPa (15 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)
- Reverse Current Protection
- API 12N Flame Arrestor

Optional Features

- Remote Start
- Corrosive Environment Fuel System
- Pole Mount or bench stand

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.

* Formerly Global Thermoelectric



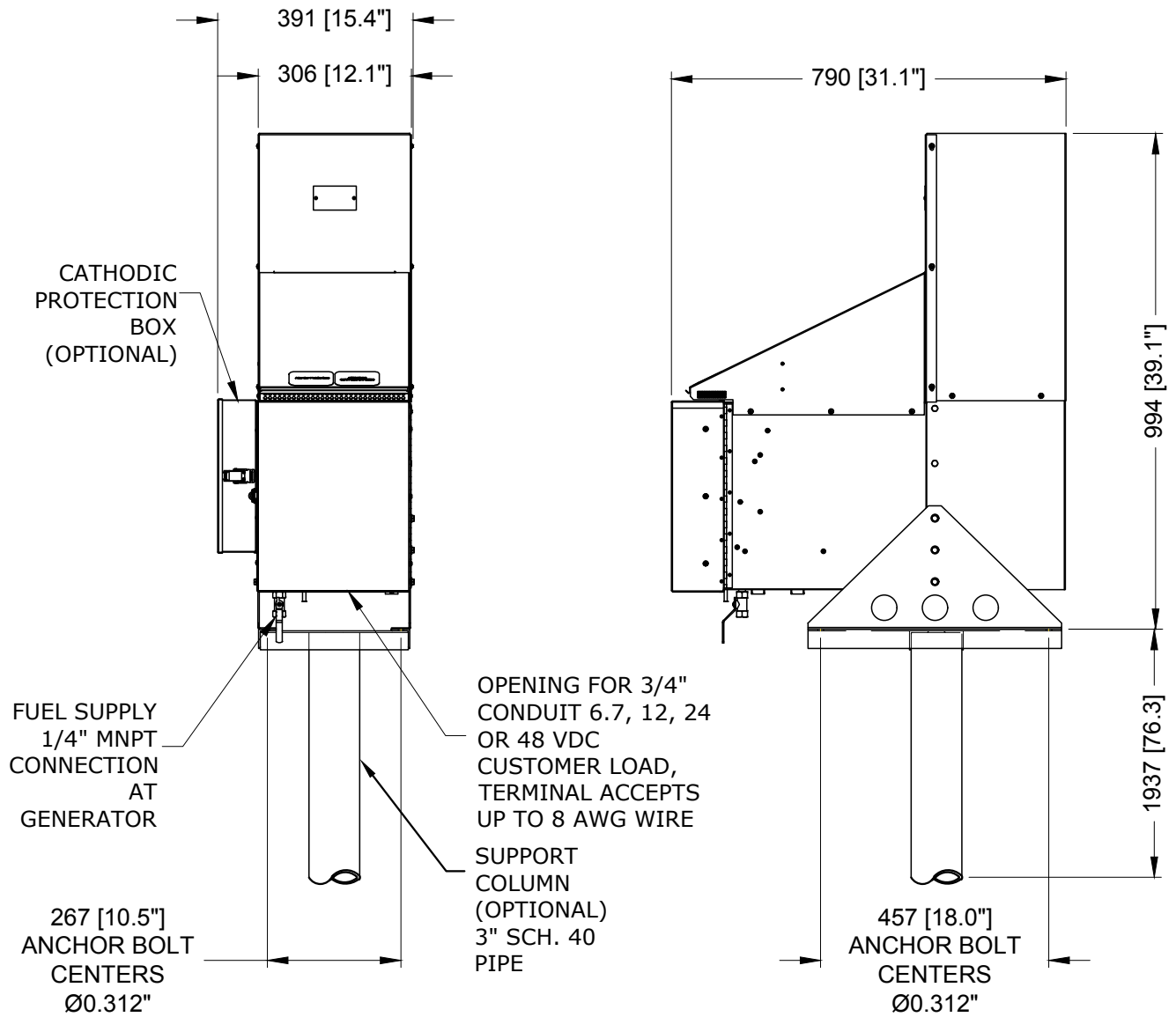
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Typical Installation



NOTES:

1. GENERATOR WEIGHT: 60 kg [132 lb]
2. DIMENSIONS IN mm [INCHES].

MODEL: P-5100
 DRW: 68321rev1