The 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.

**KEY DESIGN FEATURES:**
- Automatic Spark Ignition (SI)
- Automatic Fuel Shut-Off (SO)
- Fuel Filter
- Low Voltage Alarm Contacts (VSR)
- Reverse Current Protection

**OPTIONAL FEATURES:**
- Corrosive Environmental Fuel System
- Bench Stand
- Ethylene Fueled
- Operation Over 4000m Elevation
- Cathodic Protection Interface

### Power Specifications

**Power Rating at 20°C:**
- 480 Watts @ 12 Volts
- 550 Watts @ 24 Volts
- 480 Watts @ 48 Volts

**Output Adjustment Range:**
- 12 V: 11.4–12.6 Volts
- 24 V: 24–30 Volts
- 48 V: 47–57 Volts

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

### Fuel Requirements

**Natural Gas:**
- 48.0 m³/day (1695 Sft³/day)
- 1000 BTU/Sft³ (37.7 MJ/Sm³) gas
- max 115 mg/Sm³ (~170 ppmw) H₂S
- max 120 mg/Sm³ H₂O
- max 1% free O₂

**Propane:**
- 76.0 l/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 Operating Temperature:**
- Max. +45°C (115°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 +45°C.

### Construction

**Materials:**
- Cabinet: 304 Stainless Steel (SS)
- Cooling Type: Natural Convection
- Fuel System: Brass, Aluminum & Stainless Steel

**Note:**
Specifications shown are for standard 8550 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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OPENING FOR 3/4” CONDUIT 12, 24 OR 48 VDC CUSTOMER LOAD, TERMINAL ACCEPTS UP TO 8 AWG WIRE

406mm [16.0"] MOUNTING BOLT HOLES Ø0.56"

FUEL SUPPLY 1/4” MNPT CONNECTION AT GENERATOR

406mm [16.0"] MOUNTING BOLT HOLES Ø0.56"

SUPPORT STAND (OPTIONAL)

397mm [15.6"] STAND ANCHOR BOLT HOLES Ø0.312"

NOTES:

Generator Weight: 102 kg [225 lb]  Model: 8550

Gentherm Global Power Technologies

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