

## MODEL S-8500

The 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.

### KEY FEATURES:

- ✓ Automatic Spark Ignition (SI)
- ✓ Automatic Fuel Shut-Off (SO)
- ✓ Fuel Filter
- ✓ Low Voltage Alarm Contacts (VSR)
- ✓ Reverse Current Protection
- ✓ Certified to CSA Std. T.I.L. R-10; CE

### OPTIONAL FEATURES:

- ✓ Remote Start
- ✓ Corrosive Environmental Fuel System
- ✓ Cathodic Protection Interface



## SPECIFICATIONS

### POWER SPECIFICATIONS

#### POWER RATING AT 20°C (68°F)

460 Watts @ 12 Volts      460 Watts @ 48 Volts  
520 Watts @ 24 Volts

### ELECTRICAL

#### OUTPUT ADJUSTMENT RANGE

12 Volts      11.4–12.6 Volts  
24 Volts      24–30 Volts  
48 Volts      47–57 Volts

**Output:** Terminal block which accepts up to 8 AWG wire. Opening for 1" conduit in base of cabinet.

### FUEL REQUIREMENTS

#### NATURAL GAS

50.4m<sup>3</sup>/day (1780 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 ppmw) 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

76.0 L/day (20.1 US gal/day)

#### NATURAL GAS/PROPANE

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" Female NPT

### ENVIRONMENTAL

#### AMBIENT OPERATING TEMPERATURE

Max. +55°C (130°F)  
Min. -40°C (-40°F)

#### OPERATING CONDITIONS

Unsheltered operation

Please contact GPT for operating conditions below -40°C or above +55°C.

### CONSTRUCTION

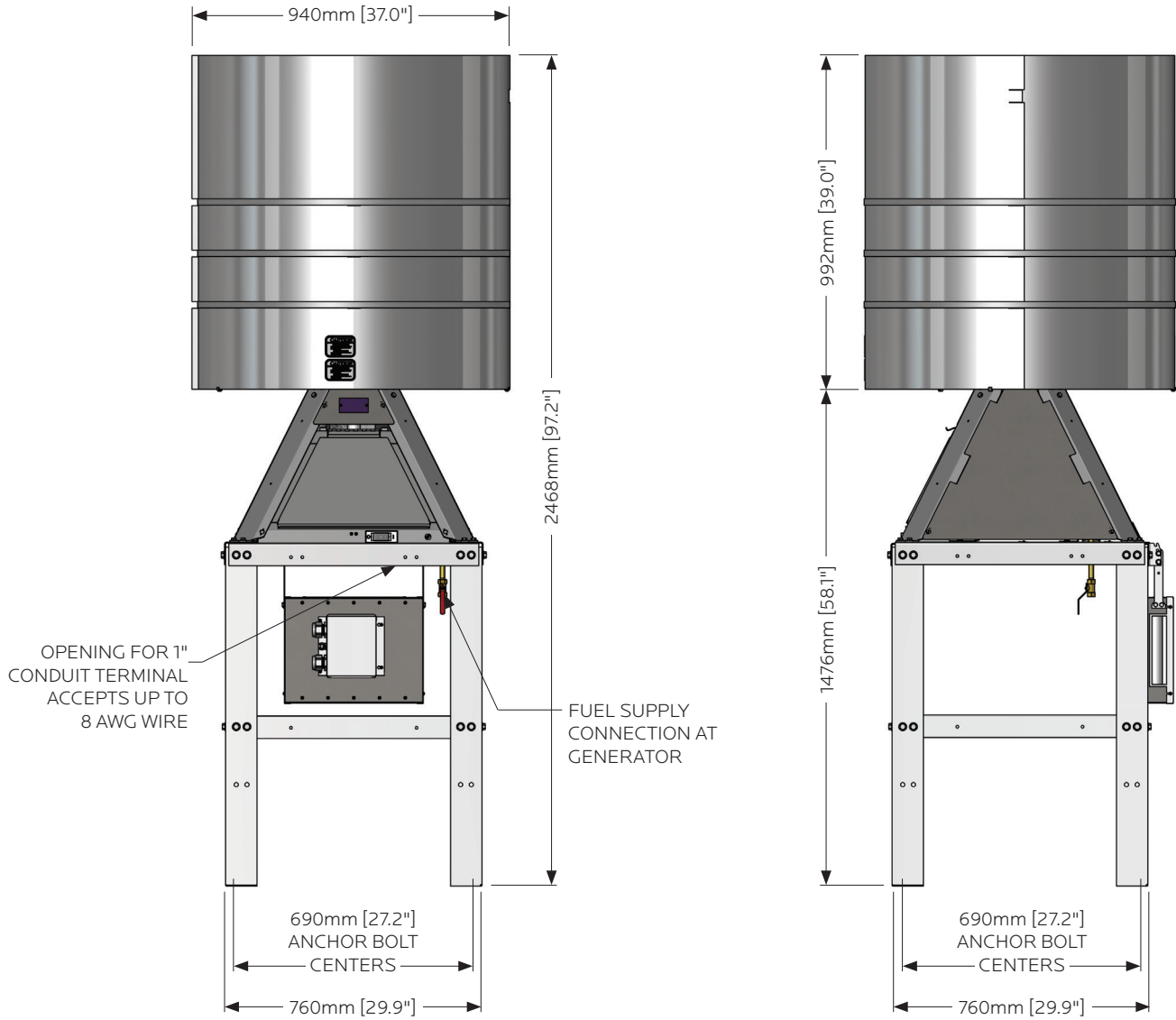
#### MATERIALS

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

### NOTES

Specifications shown are for standard S-8500 configurations. 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.



**NOTES:**  
Generator Weight: 274 kg [604 lb]

**ISO**  
9001:2015  
REGISTERED

**ETL**  
Intertek

**CE**