

MODEL 1120

Hazardous Area Thermoelectric Generator

The Model 1120 Thermoelectric Generator is Class 1, Div 2 or Class 1, Div 1 hazardous area rated. With 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)
- ✘ Volt & Amp Meter
- ✘ Reverse Current Protection
- ✘ Flame Arrestor
- ✘ CSA Certification (Class 1, Div 2 Group D, Temp T3)

OPTIONAL FEATURES:

- ✘ FM Certification (Class 1, Div 1, Temp T3)
- ✘ 316 SS Regulator & Fuel Valve
- ✘ Cathodic Protection Interface Panel
- ✘ Pole Mount or Bench Stand
- ✘ Intake Air Filter



Power Specifications	Power Rating at 20°C:
	110 Watts @ 6.7 Volts
	100 Watts @ 12 Volts
	100 Watts @ 24 Volts
	100 Watts @ 48 Volts

Electrical	Output Adjustment Range:
	6.7 V up to 11 Volts
	12 V 12-18 Volts
	24 V 24-30 Volts
	48 V 48-60 Volts

Output: Terminal block which accepts up to 00 AWG wire.
Opening for two 3/4" NPT ports in base of electronics enclosure.

Fuel Requirements	Natural Gas:
	8.8m ³ /day (311 Sft ³ /day)
	1000 BTU/Sft ³ (37.7 MJ/Sm ³) gas
	max 115 mg/Sm ³ (~170 ppmw) H ₂ S
	max 120 mg/Sm ³ H ₂ O
	max 1% free O ₂
	Propane:
	11.4 l/day (3.0 US gal/day)

Max. Supply Pressure: 172 kPa (25 psi)
Min. Supply Pressure NG: 69 kPa (10 psi)
Min. Supply Pressure LPG: 103 kPa (15 psi)
Fuel Connection: 1/4" MNPT

Environmental	Ambient Operating Temperature:
	Max. +45°C (115°F)
	Min. -20°C (-4°F)

Operating Conditions:
Unsheltered operation certified for use in hazardous areas.

Please contact GPT for operating conditions below -20°C or above +45°C.

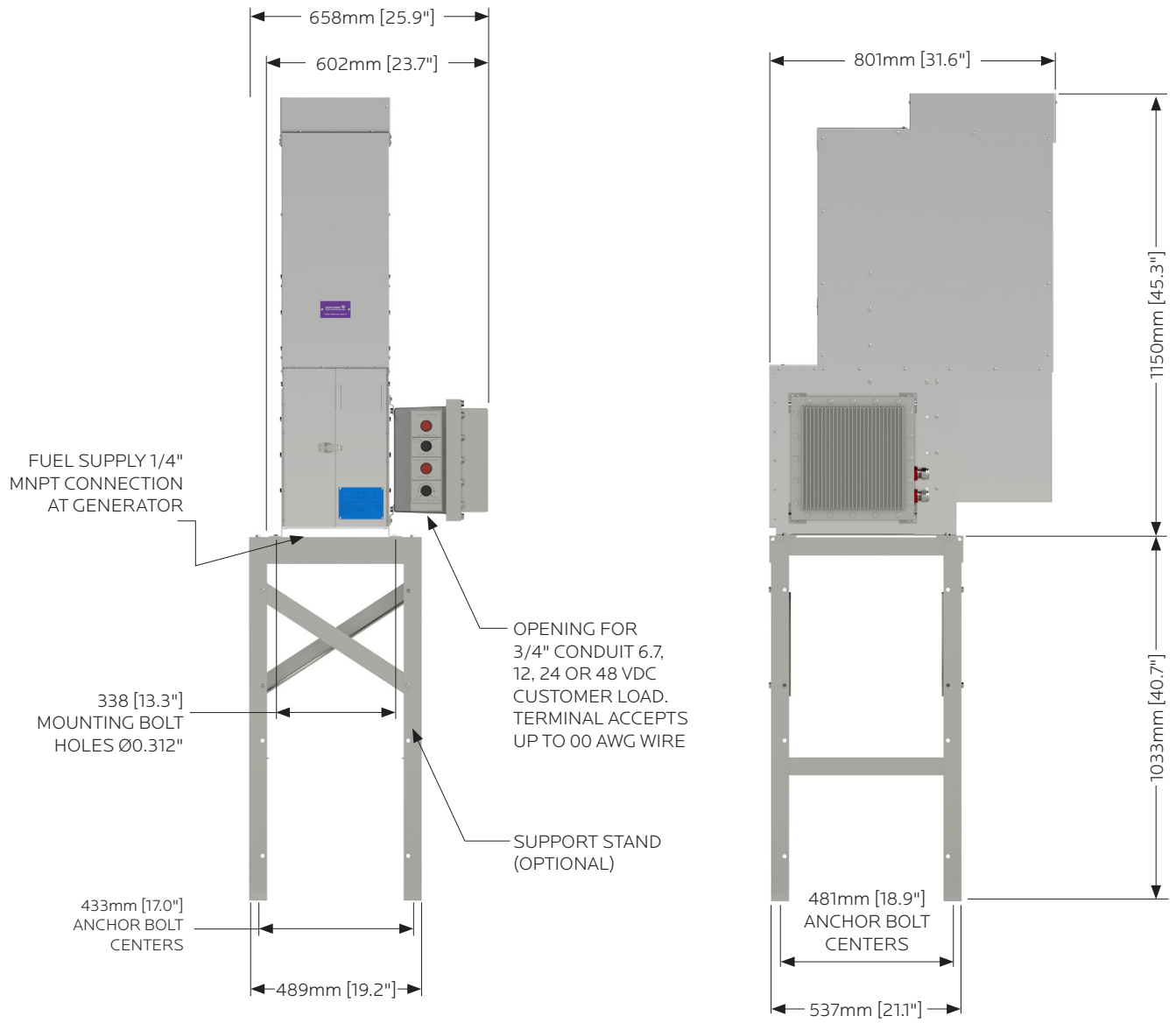
Construction	Materials:
	Cabinet: 316 Stainless Steel (SS)
	Cooling Type: Natural Convection
	Fuel System: Aluminum & Stainless Steel

Note:

Specifications shown are for standard 1120 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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NOTES:		
Generator Weight: 130 kg [286 lb]	Model: 1120	

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