

# Power

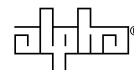
## AlphaGen™ Telecom

Telecom Generator Systems



- Cost effective extended runtime solution for outdoor powering applications
- Quiet operation, small size, and low profile allow for easier installation in populated areas
- Eliminates large quantities of batteries otherwise required for extended runtime
- Telecom grade 48VDC output
- Built-in safeguards to protect the system, operators and the public
- Safe unattended operation designed to UL2200, NFPA 37, 54, 58 & 70 standards

The AlphaGen curbside generator system is specifically designed for outside plant communication networks. Every AlphaGen system incorporates industry leading power technology, including: natural gas or propane powered engine generators, exclusive audible noise baffling, remote status monitoring features, and durable weather resistant enclosures. Alpha offers a full line of AlphaGen systems specifically designed for telecom applications.



## AlphaGen Telecom

### Specifications

Model:	3.5kW	5.0kW	7.5kW
DC Output Voltage:	-51.5 to -52V @ no load	-51.5 to -52V @ no load	-51.5 to -52V @ no load
DC Output Load Regulation:	0.5V	0.5V	0.5V
Output Current:	52V @ 67A max.	52V @ 96A max.	52V @ 144A max.
<b>Noise</b>			
Voiceband:	<54dBrnC	<54dBrnC	<54dBrnC
Wideband:	<100mVrms in any 3kHz bandwidth from 10k to 20mHz	<100mVrms in any 3kHz bandwidth from 10k to 20mHz	<100mVrms in any 3kHz bandwidth from 10kHz to 20mHz
Broadband:	<250mVp-p from 20 to 100mHz	<250mVp-p from 20 to 100mHz	<250mVp-p from 20 to 100mHz
Engine:	398CC, Air cooled, Single OHV 10.5hp (using natural gas fuel)	398CC, Air cooled, Single OHV 10.5hp (using natural gas fuel)	624CC, Air cooled, Twin OHV 13.1hp (using natural gas fuel)
RPM (Variable Speed):	2800 to 3600RPM	2800 to 3600RPM	2100 to 3450RPM
<b>Acoustical Noise</b>			
dBA 10' @ 100% Rated Load:	66.9 Ave	68.5 Ave	70.3 Ave
dBA 20' @ 100% Rated Load:	60.9 Ave	62.5 Ave	64.3 Ave
dBA 10' @ 70% Rated Load:	65.1 Ave	66.9 Ave	66.4 Ave
dBA 20' @ 70% Rated Load:	59.1 Ave	60.9 Ave	60.4 Ave
<b>System Size:</b>	CE-3x	CE-3x	PN-6x
Height (in/cm):	44/111.8	44/111.8	39/99.1
Width (in/cm):	26/66	26/66	39.25/99.7
Depth (in/cm):	24/61	24/61	24/61
Weight (lb/kg):	395/179.2	395/179.2	338/153.3
<b>APU Fuel Consumption</b>			
Natural Gas: 1000BTU/ft. <sup>3</sup> :	60ft <sup>3</sup> /hr	80ft <sup>3</sup> /hr	156ft <sup>3</sup> /hr
Propane Gas: 2520BTU/ft. <sup>3</sup> :	0.82 gal/hr 30ft <sup>3</sup> /hr 3.46lb/hr	1.1gal/hr 40ft <sup>3</sup> /hr 4.62lb/hr	1.48gal/hr 54ft <sup>3</sup> /hr 6.24lb/hr
Gas Inlet Pressure:	0.5 to 2 PSI Inlet Pressure (Please contact Alpha Technologies for low pressure)	0.5 to 2 PSI Inlet Pressure (Please contact Alpha Technologies for low pressure)	0.5 to 2 PSI Inlet Pressure (Please contact Alpha Technologies for low pressure)
Ign Charger Voltage:	13.5VDC	13.5VDC	13.5VDC
Ign Charger Current:	6A max.	6A max.	6A max.
Remote Interface Length:	75ft max. Distance depends upon proper installation, de-rating and wire gauge (Please contact Alpha Technologies for remote interface length distance)	50ft max. Distance depends upon proper installation, de-rating and wire gauge (Please contact Alpha Technologies for remote interface length distance)	25ft max. Distance depends upon proper installation, de-rating and wire gauge (Please contact Alpha Technologies for remote interface length distance)
Agency Compliance:	UL2200, NFPA 37/54/58 and 70, CSA C22.2 FCC Class A	UL2200, NFPA 37/54/58 and 70, CSA C22.2 FCC Class A	UL2200, NFPA 37/54/58 and 70, CSA C22.2 FCC Class A

### For All Models

- Fuel System, Controls & Monitoring:** The controls and fuel system meet applicable sections of NFPA 37, 54 and 58 for automatic unattended operation of remotely located generators. Full System Control and Status Monitoring included.
- Sensors:** Gas Hazard, Pad Shear, Water Intrusion & Tamper
- Safety Shutdowns:**
- Low Oil Pressure
  - Water Intrusion
  - Over Speed
  - Over Temp
  - Pad Shear
  - Over Crank
  - Low Fuel Pressure Shutdown (Propane only)
  - Gas Hazard (Propane or Natural Gas)
- Additional Features:** Cold Start Kit: Provides additional starting capability at temperatures below 0°F.
- Optional Integrated Propane Storage:** For locations where natural gas is not available, Alpha offers the CE-3G propane enclosure. CE-3G propane enclosures are not available for the 7.5kW generator. Contact local propane supporter for proper tank sizing. Fully CSA & NFPA compliant, and designed for use in curbside applications.

Note: Contact Alpha Technologies for the following:

<sup>1</sup>Low pressure

<sup>2</sup>Remote interface length distance



CE-3x 3.5 or 5kW



CE-3/9G Propane Storage for Generator



7.5kW Generator

For contact information visit [www.alpha.com](http://www.alpha.com)

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