

# Power

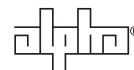
AlphaGen™

Broadband Generator Systems



- Cost effective extended runtime solution for broadband 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
- Designed for stand-alone or collocated pownode applications
- 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 easy integration with Alpha Pownodes (PN).



# AlphaGen

## Specifications

Model:	3.5kW			5.0kW			7.5kW
DC Output Voltage:	39.0V ±0.5V @ no load 36V configuration 52.0V ±0.5V @ no load 48V configuration			39.0V ±0.5V @ no load 36V configuration 52.0V ±0.5V @ no load 48V configuration			52.0V ±0.5V @ no load 48V configuration 104.0V ±0.5V @ no load 96V configuration
DC Output Load Regulation:	0.5V			0.5V			0.5V
Output Current:	39.0V @ 90A max. 52.0V @ 67A max.			39.0V @ 128A max. 52.0V @ 96A max.			52.0V @ 144A max. 104V @ 72A max.
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 15hp (using natural gas fuel)
RPM: (Variable Speed):	2800 to 3600RPM			2800 to 3600RPM			2800 to 3600RPM
Acoustical Noise							
dBA 10' @ 100% rated load:	68.7Ave			68.5Ave			70.3Ave
dBA 20' @ 100% rated load:	63.0Ave			62.5Ave			64.3Ave
dBA 10' @ 70% rated load:	68.3Ave			66.9Ave			66.4Ave
dBA 20' @ 70% rated load:	62.6Ave			60.9Ave			60.4Ave
System Size:	CE-3x	CE-9x	PN-4xL	CE-3x	CE-9x	PN-4xL	PN-6x
Height (in/cm):	44/111.2	52/132.1	32/81.3	44/111.2	52/132.1	32/81.3	39/99 (57/144 with optional pedestal)
Width (in/cm):	26/66	52/132.1	32/81.3	26/66	52/132.1	32/81.3	39.25/100
Depth (in/cm):	24/61	24/61	30/76.2	24/61	24/61	30/76	24/61
Weight (lb/kg):	383/174	413/187	390/177	383/174	413/187	390/177	338/174 (370/168 with optional pedestal)
APU Fuel Consumption							
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			1.10gal/hr 40ft <sup>3</sup> /hr 4.62lb/hr			1.48gal/hr 54ft <sup>3</sup> /hr 6.24lb/hr
Exterior Surface Temperature:	65°C max. (149°F)(meets requirements of UL/CSA)			65°C max. (149°F)(meets requirements of UL/CSA)			65°C max. (149°F)(meets requirements of UL/CSA)

## All Models

Gas Inlet Pressure:	0.5 to 2 PSI Inlet Pressure (see note 1)
Ign Charger Voltage:	13.5VDC
Ign Charger Current:	6A max.
Remote Interface Length:	75ft max. Distance depends upon proper installation, de-rating and wire gauge (see note 2)
Agency Compliance:	UL1778, UL2200, NFPA 37/54/58 and 70, CSA C22.2 No.107.1, EMC/FCC Part 15 Class A
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:	All Models: <ul style="list-style-type: none"> <li>• Low Oil Pressure</li> <li>• Over Temp</li> <li>• Low Fuel Pressure Shutdown (Propane only)</li> <li>• Water Intrusion</li> <li>• Pad Shear</li> <li>• Gas Hazard (Propane or Natural Gas)</li> <li>• Over Speed</li> <li>• Over Crank</li> </ul>
Optional Feature:	Cold Start Kit: Provides additional starting capability at temperatures below 0°F.

Note: Contact Alpha Technologies for the following:

<sup>1</sup> Low pressure    <sup>2</sup> Remote interface length distance



CE-3x2  
3.5 or 5kW



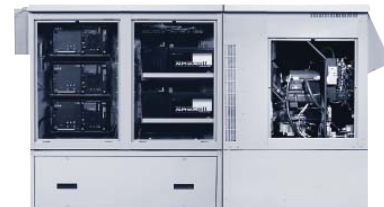
CE-9x2  
3.5 or 5kW



CE-3/9G Propane Storage  
for Generator  
(For 3.5 and 5.0kW)



PN-4xL  
3.5 or 5kW



PN-6x  
7.5kW  
(PN-6x is not compatible with CE-3/9G)

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

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