

# AlphaGen™

## DC Generator Systems



Your Power Solutions Partner

- Integrated generator system lets you deploy power where you need it
- 3.5, 5.0 and 7.5kW options in either 36Vdc or 48Vdc configurations
- Cost effective extended runtime solution for Telecom 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 powernode applications
- Built-in safeguards to protect the system, operators and the public
- Safe unattended operation designed to UL2200, NFPA 37, 54, 58 and 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 Powernodes (PN).



# Power



# AlphaGen™ DC Generator System

Consult your Alpha representative for P/N configurations

PERFORMANCE/FEATURES									
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)								
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 • Water intrusion • Pad shear • Tamper								
SAFETY SHUTDOWNS									
All models	<ul style="list-style-type: none"> <li>• Low oil pressure</li> <li>• Pad shear</li> <li>• Over speed</li> <li>• Low fuel pressure shutdown (propane only)</li> <li>• Gas hazard (propane or natural gas)</li> <li>• Over crank</li> <li>• Water intrusion</li> <li>• Over temp</li> </ul>								
Optional feature	Cold start kit: Provides additional starting capability at temperatures below 17.7°C (0°F).								
Model:	<b>3.5kW</b>			<b>5.0kW</b>			<b>7.5kW</b>		
DC output voltage	39.0V ±0.5V @ no load 36V 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			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			39.0V @ 128A max			52.0V @ 144A max		
	52.0V @ 67A max			52.0V @ 96A max			104V @ 72A max		
Engine	398CC, Air cooled, Single OHV			398CC, Air cooled, Single OHV			624CC, Air cooled, Twin OHV		
	10.5hp (using natural gas fuel)			10.5hp (using natural gas fuel)			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		
DIMENSIONS		CE-3x	CE-9x	PN-4xL	CE-3x	CE-9x	PN-4xL	PN-6x	w. optional pedestal
Height	cm	111.2	132.1	81.3	111.2	132.1	81.3	99	144
	in	44	52	32	44	52	32	39	57
Width	cm	66	132.1	81.3	66	132.1	81.3	100	
	in	26	52	32	26	52	32	39.25	
Depth	cm	61	61	76.2	61	61	76	61	
	in	24	24	30	24	24	30	24	
Weight	kg	174	187	177	174	187	177	174	168
	lbs	383	413	390	383	413	390	338	370
APU FUEL CONSUMPTION									
Natural gas: 1000 BTU/Ft. <sup>3</sup>	60ft <sup>3</sup> /hr			80ft <sup>3</sup> /hr			156ft <sup>3</sup> /hr		
	0.82gal/hr			1.10gal/hr			1.48gal/hr		
Propane gas: 2520 BTU/Ft. <sup>3</sup>	30ft <sup>3</sup> /hr			40ft <sup>3</sup> /hr			54ft <sup>3</sup> /hr		
	3.46lbs/hr			4.62lbs/hr			6.24lbs/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)		
AGENCY COMPLIANCE									
UL1778, UL2200, NFPA 37/54/58/70, CSA C22.2 No.107.1, EMC/FCC Part 15 Class A									
Note: Contact Alpha Technologies for the following: 1. Low pressure 2. Remote interface length distance									

Alpha Technologies Ltd.

For more information visit [www.alpha.ca](http://www.alpha.ca)

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