

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 powernode 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 Powernodes (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. ³ :	60ft ³ /hr			80ft ³ /hr			156ft ³ /hr
Propane Gas: 2520BTU/Ft. ³ :	0.82 gal/hr 30ft ³ /hr 3.46lb/hr			1.10gal/hr 40ft ³ /hr 4.62lb/hr			1.48gal/hr 54ft ³ /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.
Agency Compliance:	Distance depends upon proper installation, de-rating and wire gauge (see note 2) 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. Gas Hazard, Pad Shear, Water Intrusion & Tamper
Sensors:	All Models: • Low Oil Pressure • Over Temp • Low Fuel Pressure Shutdown (Propane only)
Safety Shutdowns:	• Water Intrusion • Pad Shear • Gas Hazard (Propane or Natural Gas)
	• Over Speed • Over Crank
Optional Feature:	Cold Start Kit: Provides additional starting capability at temperatures below 0°F.

Note: Contact Alpha Technologies for the following:
¹ Low pressure ² 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

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