

# Power

## Powernode Systems

Broadband Power Systems



- Configurable to support centralized or distributed powering architectures
- Compatible with AlphaGen™ systems or multiple battery strings for extended runtime solutions
- Standard or low profile designs
- SUSE or EUSERC rated options available
- Agency certified to meet applicable industry standards
- High security options

Alpha's Powernode (PN) Series enclosures offer flexibility and modular expandability for Broadband powering applications. The PN Series is designed to power the network's capacity today, as well as support enhanced reliability options when new services are integrated. Supporting centralized or distributed powering architectures, PN Series enclosures accommodate multiple power supplies, battery strings and/or natural gas or propane generators.

## Powernode Systems

### PN-3 Configurations



Single PN-3  
1 Power Supply  
2 Battery Strings



Dual PN-3  
2 Power Supplies  
4 Battery Strings



PN-3/CE-3X2  
2 Power Supplies  
1 Battery String  
AlphaGen™ Generator

The PN-3 enclosure can accommodate a maximum combination of three equipment or battery trays.

#### Enclosure Specifications

Dimensions (in):	26W x 44H x 24D
(mm):	660W x 1118H x 610D
Weight (lb/kg):	115/52 trays not included
Power Supply Capacity:	Up to three power supplies
Color:	Seafoam Green, optional colors available
Standard Features:	Removable/Lockable doors
Finish:	Durable powder coat
Material:	Aluminum

### PN-3 High Security Configurations



PN-SC-HS  
Sidecar  
1 Power Supply  
1 Battery String



PN-3-HS  
Battery Cabinet  
3 Battery Strings



PN-3/SC-HS  
Sidecar and Battery Cabinet  
1 Power Supply  
4 Battery Strings



PN-3/SC-HS  
High Security Locks

The PN-3/SC-HS system has recessed star bolt security locks to limit unauthorized entry. Stainless steel reinforced door frames. Doors reinforced with welded channel for strength.

#### Enclosure Specifications

Model:	PN-SC-HS	PN-3-HS
Dimensions (in):	15W x 44H x 24D	26W x 44H x 24D
(mm):	381W x 1118H x 610D	660W x 1118H x 610D
Weight (lb/kg):	51/23.13	125/57 trays not included
Power Supply Capacity:	One power supply	Up to three power supplies
Color:	Seafoam Green, optional colors available	Seafoam Green, optional colors available
Standard Features:	Removable/Lockable doors	Removable/Lockable doors
Finish:	Durable powder coat	Durable powder coat
Material:	Aluminum	Aluminum

## Powernode Systems

### PN-4 Configurations



Single PN-4  
2 Power Supply  
2 Battery Strings



Dual PN-4  
3 Power Supplies  
4 Battery Strings



PN-4/CE-9X2  
2 Power Supplies  
3 Battery String  
AlphaGen™ Generator

The PN-4 enclosure can accommodate a maximum combination of four trays. A maximum of either three power modules or three battery trays can be installed.

#### Enclosure Specifications

Dimensions (in):	26W x 52H x 24D
(mm):	660W x 1320H x 610D
Weight (lb/kg):	145/66
Power Supply Capacity:	Up to three power supplies
Color:	Seafoam Green, (optional colors available)
Standard Features:	Removable/Lockable doors
Finish:	Durable powder coat
Material:	Aluminum

### PN-4 Low Profile Configurations



PN-4L (front view)  
Power Module Compartment  
1 or 2 Power Supplies



PN-4L (rear view)  
Battery Compartment  
36V or 28V Battery Strings



PN-4L and PN-4xL  
1 or 2 Power Supplies  
36V or 48V Battery Strings  
AlphaGen 3.5kW or 5kW Generator



PN-4LSC sidecar  
1 Power Supply  
36V or 48V Battery Strings



PN-4LSC and PN-4xL  
1 Power Supply  
36V or 48V Battery Strings  
AlphaGen 3.5kW or 5kW Generator

The Alpha Low Profile Powernode has been designed to provide unlimited backup to cable TV, data and lifeline telephony services. The system combines industry-leading power technology to provide maximum power density, unparalleled system reliability and indefinite runtime, all in a small, low profile package.

#### Enclosure Specifications

Model:	PN-4L	PN-4L and PN-4xL	PN-4L Sidecar
Dimensions (in):	36W x 32H x 30D	72W x 32H x 30D	33.8W x 32H x 19.9D
(mm):	915W x 813H x 762D	1830W x 813H x 762D	858W x 812H x 505D
Weight (lb/kg):	122/55.3	512/232.2	91.5/41.5
Power Supply Capacity:	Up to two power supplies	Up to two power supplies	One power supply
Color:	Seafoam Green, (optional colors available)	Seafoam Green, (optional colors available)	Seafoam Green, (optional colors available)
Standard Features:	Removable/Lockable doors	Removable/Lockable doors	Removable/Lockable doors
Finish:	Durable powder coat	Durable powder coat	Durable powder coat
Material:	Aluminum	Aluminum	Aluminum

## Powernode Systems

### PN-6 Configurations



PN-6  
3 Power Modules  
2 48V Battery strings



PN-6  
Optional Battery Drawer  
3 Power Modules  
4 48V Battery strings



PN-6 and PN-6x  
AlphaGen 7.5kW Generator  
3 Power Modules  
2 48V Battery strings  
Optional Battery Drawer

The PN-6 offers a low profile design that accommodates up to three power modules. An optional Battery Drawer (BD-8) fits under the PN-6 to provide easy access storage for up to eight batteries.

#### Enclosure Specifications

Dimensions (in):	52W x 39H x 24D
(mm):	1321W x 990H x 610D
Weight (lb/kg):	250/113
Power Supply Capacity:	Up to three power supplies
Color:	Standard: seafoam green, powder coat finish, optional colors available
Standard Features:	All aluminum construction, removable/lockable doors

Note: PN-6 with PN-6x dimensions are (in) 91W x 57H x 24D/(mm) 2311W x 1448H x 610D with BD-8 and generator pedestal  
PN-6 with PN-6x dimensions are (in) 91W x 39H x 24D/(mm) 2311W x 991H x 610D without BD-8 and generator pedestal

### CESC-3x2



The most compact, cost effective "all-in-one" power system. The CESC-3x provides for a single power module, batteries, and generator in a low profile, minimum footprint design.

#### Enclosure Specifications

Dimensions (in):	41W x 44H x 24D
(mm):	1041W x 1118H x 610D
Weight (lb/kg):	428/194.1
Power Supply Capacity:	One power supply
Color:	Standard: seafoam green, powder coat finish, optional colors available
Standard Features:	All aluminum construction, removable/lockable doors

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

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