

# Power

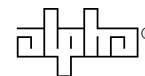
## NovusXT-CFR®

Outdoor Power Systems for Mission Critical Applications

- Incorporates Controlled Ferroresonant Transformer (CFR®) technology.
- Rugged outdoor enclosure designed to handle extreme environmental conditions.
- Provides complete input to output isolation and superior surge and lightning protection.
- Optional battery cabinets and generators provide extended runtimes.
- Over a million power installations worldwide.
- Power ratings available in 3kVA and 5kVA.



Alpha's NovusXT-CFR® Series provides superior backup power protection for outdoor mission critical applications. Designed to meet or exceed the safety standards established by UL, CSA, CE and VDE, the Novus XT-CFR® Series sets the standard for effective outdoor powering. The input power factor correction brings low power-factor loads to near unity, reducing electric utility costs. The Novus XT-CFR® is fully compatible with AlphaGen™, Alpha's outline line of natural gas or propane generators to provide longer runtimes. The Novus XT-CFR® comes complete with a full 2-year warranty.



## Enclosure Configurations



**PN-3**  
1 power module  
1 bypass switch  
1 battery string

**PN-4**  
1 power module  
1 bypass switch  
2 battery strings

**PN-3/CE-3x/CE-3G**  
1 power module  
1 bypass switch  
1 battery string  
AlphaGen 3.5kW or 5.0kW generator  
2 LP gas tanks

## Power Modules

CFR power modules are available in two power ratings – 3000VA and 5000VA. Power module selection should be based on needed output power rating and backup time requirement.

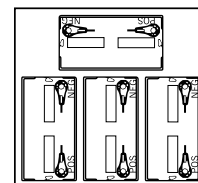
Power Module:	CFR 3000RM	CFR 5000RM
Output Power Rating	3000VA 2000W	5000VA 3000W
Input Voltage (VAC) Nominal	120 / 208 / 240	120 / 208 / 240
Output Voltage (VAC) Nominal	120 / 208 / 240	120 / 208 / 240
Typical Efficiency - AC/AC 100% Load	90%	90%
Typical Heat Output - Line Mode	758 BTU/h	1425 BTU/h
<b>Mechanical:</b>	<b>PN-3</b>	<b>PN-4</b>
Height (in/mm)	44 / 1117	48 / 1219
Width (in/mm)	26 / 660	26 / 660
Depth (in/mm)	24 / 610	24 / 610
Weight (lbs/kg)*	530 / 240	625 / 283
<b>Maximum Battery Charger Current:</b>	8A	8A
<b>Battery Runtime Options:**</b>		
A. Single 48V Battery Pack Total Runtime (@25°C)	1 hr 45 min	1 hour
B. Dual 48V Battery Pack Total Runtime (@25°C)	4 hours	2 hrs 10 min
<b>60Hz Power Connector Options:</b>		
Input: Terminal Block	TB	TB
Output: Terminal Block	TB	TB

**Note:**

- \* Weight based on basic installation, single battery string. Additional 48V strings are 250 lbs. / 113 kg.
- \*\* Battery runtimes are calculated using 180 GXL batteries at typical loads (80%) and will vary according to battery age, loads, temperature and other factors.

## Battery Configuration

Batteries provide interim/short term power during generator start-up and stabilizing cycles.



for 48V systems

## Bypass Features

### Bypass Switch (BPS)

A manually-operated mechanical switch used to select an alternative source of power for the critical load, should the UPS need servicing or maintenance.

## Generator Systems

AlphaGen curbside generator systems provide backup power to electronic equipment for safe, remote unattended operation to outside plant locations without the need for large quantities of batteries and redundant rectifiers.

## Optional Standby Generator Features

Engine Generator DC Output (48V)  
Propane Storage cabinet (CEG) up to 16 hours  
Remote Generator Interface Kit

## Optional Features

Battery Heater mat (BHM)  
Manual Transfer Switch (MTS)  
Meter Head  
"SUSE"-rated Service Disconnect Box (BBX)

Please contact your Alpha sales representative for more information.