



## Novus XT-CFR Outdoor Power Supplies



Integrated power supply system offers simplified design with one power supply system per node.

Modularity allows power modules to be added to accommodate increased power requirements.

Choose from a complete line of power supplies, batteries and generators.

Complete input to output isolation provides the industry's best surge and lightning protection.

The CFR's design provides efficiency ratings of up to 92 percent.

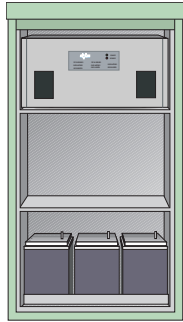
Optional External Battery Packs greatly extend available backup time.

Flexible 19" rack system simplifies installation and allows future reconfigurations.

Many of today's mission critical outdoor applications require power protection. Alpha's Novus XT power systems provide necessary power conditioning and backup power in the event of utility power loss. Depending on the extent and complexity of the services provided, subscriber power requirements can vary dramatically. To address this challenge, the Novus XT CFR Series will accommodate current system power requirements while allowing the cost-effective addition of power capacity as new services are integrated. The CFR power module sets the standard for the effective powering on non-linear or actively regulated loads, while providing superior surge and noise rejection. Power ratings of 3000VA to 5000VA available. Microprocessor controlled technology enhances the ferroresonant transformer's natural isolation, surge and spike rejection characteristics without the step-load response problems associated with other hybrid technologies. Alpha's CFR design provides line voltage regulation that exceeds the performance of comparable products. Additional batteries and/or a generator can be added for extended standby times.

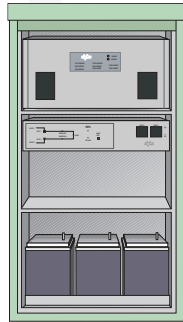
## Enclosure Configurations

### Basic Installation



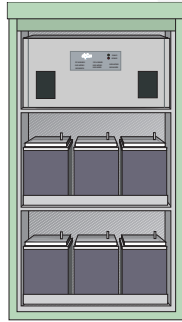
Single UPS with one battery string (PN-3 Enclosure)

### Optional RCU Installation



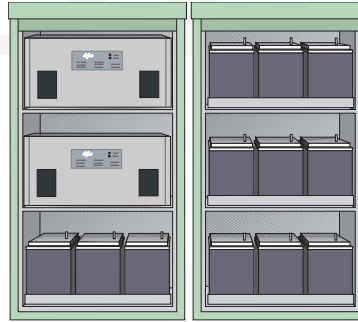
Single UPS with RCU and one battery string

### Extended Standby



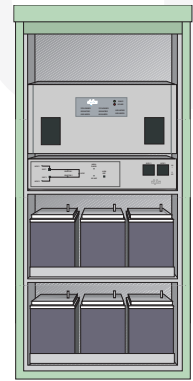
Single UPS with two battery strings

### Dual Output Installation



Dual UPSs with two battery strings each

### Optional RCU Extended Standby



Single UPS with RCU and two batteries strings (PN-4 Enclosure)

## Nominal Specifications

Model Number	CFR 3000RM	CFR 5000RM
Output Power Rating	3000VA 2250W	5000VA 3750W
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>	<i>PN3</i>	<i>PN4</i>
Height (Inches / mm)	44/1117	52/1320
Width (Inches / mm)	26/660	26/660
Depth (Inches / mm)	24/610	24/610
Weight (Lbs / kg)*	530/240	580/ 263
Maximum Battery Charger Current	3A	8A
<b>Battery Run Time Options**</b>		
A. Single 48V Battery Pack Total Run Time (@ 25°C)	1 Hr 30 Min	50 Min
B. Dual 48V Battery Pack Total Run Time (@ 25°C)	3 Hrs 30 Min	2 Hrs
<b>60Hz Power Connector Options</b>		
Input: Terminal Block	TB	TB
Output: Terminal Block	TB	TB

\* Weight based on basic installation, single battery string. Additional 48V strings are 250 lbs / 113 kg.

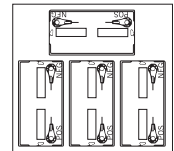
\*\* Battery run times are calculated using 180 GXL batteries at typical loads (80%) and will vary according to battery age, loads, temperature and other factors.

## Optional Features

- Battery Heater Mat (BHM)
- Manual Transfer Switch (MTS)
- Utility Meter Head
- Sidecar Battery Cabinet (12"Wx44"Hx26"D)
- "SUSE" rated Service Disconnect Box (BBX)
- Automatic Utility Grid Transfer Switch (RCU2)
- 3-Point Door Locking Mechanism

## Battery Configuration

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



for 48V systems

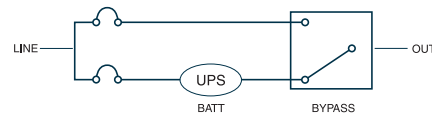
## Optional Bypass Features

### Automatic Bypass Redundant Control Unit (RCU)

An automatic transfer switch used to select an alternate source of power for the critical load, should the UPS need servicing or maintenance.

### 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) (upto 16 hours)
- Remote Generator Interface Kit
- Contact Closure Alarm Interface

Note: Multiple enclosures may be used for higher power requirements or longer battery runtime. Other configurations may be available. Optional Colors and anti-graffiti paint also available.



Please contact your Alpha sales representative for additional information.

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