

FieldSmart®

Fiber Active Cabinet (FAC) 3200



Application

The FieldSmart Fiber Active Cabinet (FAC) 3200 has been designed with the philosophy of modularity and flexibility, while maintaining a maximum cooling capability for the active electronics investment. Compliant with GR-487, the FAC 3200 is the ideal outdoor cabinet solution for the harshest outdoor conditions, providing a sealed internal environment where external air and humidity are completely isolated from the electronic equipment.

Description

The FAC 3200 outdoor cabinet is an environmentally-controlled enclosure constructed of powder-coated aluminum. The FAC 3200 cabinet's equipment compartment features a 23", 16RU equipment mounting rack front and rear, accommodating up to 32RU of active electronics equipment. The FAC 3200 provides up to 576 internal fiber distribution ports for subscriber PON deployments along with complementary splitter capacity. The FAC 3200 accepts local AC power and uses either a door mounted integrated air-to-air heat exchanger and DC-powered fans or an integrated DC-powered air conditioner to cool the equipment inside the cabinet. A vented, integrated-cabinet compartment below the equipment chamber houses optional batteries.



Features and Benefits

Integrity

- The FAC 3200 can accommodate equipment in the front compartment, as well as auxiliary and complementary options in the rear compartment and the splice chamber. The 23" equipment racks in front, rear and splice compartments, allow for a variety of deployment options.
- Designed to seamlessly integrate a variety of standard options that are expected in remote cabinets, such as the rectifier system, battery warmers and field upgradeable fiber bulkheads
- Supports a variety of cabinet mounting options including pad, pole, wall or H-frame, eliminating concern with right-of-way issues and problematic installation locations

Protection

- Telcordia GR-487 compliant and UL-60950/UL-50 spec
- Environmentally sealed design protects internal equipment investment from dust and rain
- Rated for deployments in harsh environments per GR-487: -40°F to +115°F (-40°C to +46°C)

Access

- Provides 3-point latching doors for quick access to all three compartments
- Designed to allow access to all complementary elements of a remote outdoor cabinet deployment such as the copper or fiber cables, fiber splicing and distribution modules, power and DC distribution systems, AC power and battery charge breakers, AC outlet, etc.
- Door security and hardware features designed to protect from vandalism and theft

Investment

- The FAC 3200 is designed for modular expansion, allowing for cost effective expansion of services in the future
- Cabinet engineered features designed to ensure ease of maintenance and eliminate service interruptions
- Provides an ideal platform for the migration of copper access services to fiber access infrastructure and electronics

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Technical Specifications

FieldSmart FAC 3200	
Dimensions	38"W x 43"D x 55"H
Weight	560 lbs. (Equipped with Northstar 170 Ah batteries: 1000 lbs.)
Mounting Options	Pad, Pole, H-frame, Wall, 3 rd Party Pedestal
AC Power Center Options	Power feed: 240 VAC single phase, 60-Amp service with UL listed service disconnect. Redundant AC feeds to rectifier. Redundant DC feeds to systems. Low voltage DC disconnect. (-42V), high-power Joslyn surge protector.
AC/DC Rectifier Option	Eltek CC9S-ANL-VC Compact Power System 120 Amp max. total capacity (90A N+1). Rectifier modules: (4) 30 Amp modules supported (Configured part numbers include two modules).
Cooling/Environmental	Option 1: 1800 watt (6142 Btu/h) cooling capacity with Dantherm door mount heat exchanger, as per GR-487 generic requirement Option 2: 1800 watt (6000 Btu/h) Dantherm door mount air conditioner. Air conditioner module is not GR-487 rated. Ambient temperature per GR-487: -40°F to +115°F (-40°C to +46°C)
Wired Capacity	Fiber: Up to 576 subscriber fiber terminations utilizing bulkhead option. Up to 18 integrated PON splitters. Copper: Up to 576 copper lines with MS2 or 710 splice options
Fiber Management Options	12- or 24-position Clearfield fiber splice and distribution on 19/23" mount. Support for in-cabinet GPON and ActiveE fiber management: Up to 576 position fiber distribution in 48-, 96-, 144- or 288-port increment assemblies; SC/APC connector, loose tube or ribbon. Up to eighteen integrated 1x2, 1x16, 1x32 GPON Splitters (optional).
Copper Protection Options	Standard 5-pin protection blocks — modular in 48-pair increments. Up to (12) 48-pair protection blocks.
Available Rack Units	32 RU 23" rack with optional 19" vertical frames
Safety and Compliance	UL-60950, Standard for Safety, Issue 1, April 1, 2003 CAN/CSA-C22.2 No. 60950 EMC FCC Part 15 Class A ICES-003 Class A Telcordia, GR-63-CORE, NEBS Telcordia, GR-487, Generic Requirements for Electronic Equipment Cabinets

Pre-Configured Part Numbers

Part Number	Description
R-3ZFC-ZZ1Z-ZZZ-ZZZ-ZZ	FieldSmart Fiber Active Cabinet, FAC 3200 Enclosure, Standard 23 Inch Equipment Rack, 1800 watt (6142 Btu/h) Heat Exchanger, No Load Center, No Rectifier, Supports 1 Battery String, No Bulkhead
R-3ZFE-ZZ1Z-ZZZ-ZZZ-ZZ	FieldSmart Fiber Active Cabinet, FAC 3200 Enclosure, Standard 23 Inch Equipment Rack, 1800 watt (6142 Btu/h) Air Conditioner, No Load Center, No Rectifier, Supports 2 Battery String, No Bulkhead

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Configured Part Numbers

Disclaimer/Note: Paper configurator shown is for reference only and should not be used to configure a saleable product configuration. All options shown on paper configurators may not be available or compatible with other options listed. Please contact your Clearfield representative for assistance in product configurations.

R - 3 Z - - - **Z Z Z - Z Z**

1 **2** **3** **4** **5** **6** **7**

- 1** **Select Rack Mounting**
F = Standard 23"
G = Standard 23" with Vertical 19" Brackets
- 2** **Select Heat Exchanger & Air Conditioner Doors**
C = 1800W HX Door
G = 1800W AC Door
- 3** **Select AC Power Source**
1 = AC Load Center
2 = AC Load Center/Generator Connect
Z = None
- 4** **Select Rectifier**
1 = 48 VDC Rectifier
3 = 48 VDC Rectifier Kit with TPA Breaker Panel (Used with AC Door Option with Active Gear Over 15 Amps)
Z = None
- 5** **Select Number of Battery Strings**
1 = One String
2 = Two Strings
4 = One String with Battery Warmer
5 = Two Strings with Battery Warmer
Z = None
- 6** **Select Battery Options**
C = 100Ah Battery String
D = 170Ah Battery String
E = 190Ah Battery String
Z = None
- 7** **Select Distribution Ports**
00Y = No Bulkhead with Fiber Mgmt.
ZZZ = None

Mounting Options

Mounting Option	Part Number	Description
Pad Mount	140-00007	Fiber Active Cabinet 3200 Pad Mount Kit With Pour in Place Template
Pole Mount	140-00008	Fiber Active Cabinet 3200 Wall/H-Frame/Pole Mount Kit
Wall/H-Frame Mount	140-00008	Fiber Active Cabinet 3200 Wall/H-Frame/Pole Mount Kit

Battery Options

Battery Option	Part Number	Description
100 Ah Battery String	140-00002	Fiber Active Cabinet Northstar Battery String Kit, 100 Ah - Front Access
170 Ah Battery String	140-00010	Fiber Active Cabinet 3200 Northstar Battery String Kit, 170 Ah - Front Access
190 Ah Battery String	140-00038	Fiber Active Cabinet Enersys Battery String Kit, 190 Ah - Front Access