

Application

Clearfield's FieldSmart FiberFlex 2000 enclosure has been designed from the ground up for maximum flexibility, scalability and space utilization. Optimized for fiber service delivery from 144 to 576 fiber ports utilizing the compact patch only Clearview Black Cassette, the FiberFlex 2000 is a fiber-first design for a variety of powered cabinet deployment scenarios such as the network edge, wireless backhaul and active ethernet networks. The cabinet's small footprint makes it easy to drop into any application in any location. Designed to comply to GR-487, the FiberFlex 2000 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 FiberFlex 2000 is an environmentally-controlled enclosure constructed of powder-coated aluminum. The FiberFlex 2000's equipment bay features a 19" vertical equipment rack, accommodating up to 20RU of active electronics equipment. The FiberFlex 2000 provides up to 576 internal fiber distribution ports for subscriber PON deployments, along with complementary splitter capacity. The FiberFlex 2000 accepts local AC power and features an external AC Load Center. A door-mounted, integrated air-to-air heat exchanger and air conditioner provides environmental thermal control for the equipment inside the cabinet. A separate, vented, under-cabinet compartment houses optional batteries. A second battery compartment can be added for additional backup capabilities.

Features and Benefits

Flexibility

- External load center – Simplifies and separates AC connection on site
- Multiple fiber counts – 144 to 576 fiber ports in a single cabinet (Clearview Black Cassette standard)
- Various mounting options – Pad mount or pole mount
- Stackable backup battery bays – Add additional battery compartment to double available backup time

Space Utilization

- Only 54" x 24" x 35" to fit nearly any deployment scenario
- Optimized internal space utilization for maximum equipment capabilities and fiber port count

Integrity

- Designed to comply to GR-487 and NEMA 4 for matchless protection in the harshest environments
- Heat Exchanger and Air Conditioner configurations available
- Factory integration and testing of the AC Load Center, Rectifier, Backup Battery Harness and Heat Exchanger/Air Conditioner

Access

- Provides front and rear doors for full access to internal equipment
- External AC Load Center for easy access and optimal interior space utilization
- Fiber-first design for access storage and routing of fiber (or copper) cables and accessories, such as splitters and WDMs
- Door security and hardware features designed to protect equipment from vandalism and theft
- Door integrity alarm standard

Technical Specifications

FieldSmart FiberFlex 2000	
Dimensions	Base cabinet with Battery Compartment: 54"H x 24"W x 35"D Base Cabinet with 2nd Battery Compartment Option: 66"H x 24"W x 35"D
Weight	Cabinet with Battery Compartment: 250 lbs. Equipped with one 155 Ah battery string: 650 lbs.
Mounting Options	Pour-in-Place Pad Template, <i>FUTURE</i> : Pole Mount
AC Power Center Options	AC Power feed: 240 VAC single phase, 50/60HZ, 125 Amp service with UL listed service panel. High power AC surge protection (Joslyn)
AC/DC Rectifier Option	<u>Standard Rectifier</u> : Eltek Flatpack S (FPS) 1RU -48vdc Rectifier System, Two 1000-Watt rectifier modules, autosenses and adjusts for low and high AC input <u>Optional</u> : Eltek Flatpack S (FPS) 2RU -48vdc Rectifier System, Two 1800-Watt rectifier modules, autosenses and adjusts for low and high AC input Smartpack S Controller <i>Note: All Configured Cabinet part numbers include Qty (2) Rectifier Modules</i>
Battery Capacity	Designed to accommodate (2) strings of Northstar NSB 155FT RED batteries. One string support in the standard battery compartment. Dual battery string support using expanded backup option with second battery compartment orders. (Increases capacity to 310Ah total backup). For all other battery types required, compartment space is as follows: 11.2"H x 5"W x 22"D
Cooling/Environmental	Heat Exchanger: 1000-Watt cooling capacity with Dantherm door mount heat exchanger Air Conditioner: 4K BTU Dantherm AC or DC powered air conditioner options available Ambient operating temperature range: -40°C to +46°C (-40°F to +115°F)
Fiber Management Options	Up to 576 position fiber distribution in 144 or 288-port increments, SC/APC connector, loose tube or ribbon Up to eighteen integrated splitters in various ratios available Configurable transport module for fiber separation of subscriber and active equipment transport
Available Rack Units	20RU in a standard 19" rack 6RU with full 576 fiber distribution SC ports and rectifier option
Safety and Compliance	GR-487, UL508a, UL50, and UL50E

Mounting Options

Mounting Option	Part Number	Description
Pad	150-00010	FiberFlex 2000 Pour-in-Place Template

Battery Options

Battery Option	Part Number	Description
155 AH Battery String	150-00009	FiberFlex 2000 155 AH Northstar NSB155FT Red Battery String

Splitter Options

Part Number	Description
KE1-CAA	WaveSmart High Density (HD) Splitter, 1 x 32 SCA 85 x 35 x 6 mm