

Application

Clearfield's FieldSmart FiberFlex 3000 is optimized as a fiber-first design for a variety of powered cabinet deployment scenarios. The cabinet is designed to configure for numerous applications including remote OLTs with PON distribution, wireless base stations with fiber backhaul aggregation and active network equipment with back-up power needs, utilizing a flexible vertical layout and with a modular design allows for networks to scale for the future growth.

The cabinet's footprint makes it easy to drop into any application with a PAD or vault mount option. Designed to meet GR-487 requirements, the FiberFlex 3000 is the ideal outdoor cabinet solution for the harshest environments.

Description

The FiberFlex 3000 is an all-in-one design, capable of integrating fiber, power (AC & DC) and active equipment. This cabinet features flexible vertical options to meet a wide variety deployment environments and is scalable for future growth. The FiberFlex 3000 equipment bay features a 19" or 23" vertical equipment rack to provide options for

- 36RU active electronics and passive equipment with no batteries
- 30RU with 1 string of batteries
- 20RU with 2 strings of batteries



The FiberFlex 3000 provides up to 864 internal fiber distribution ports for subscriber PON deployments, along with complementary splitter capacity. The FiberFlex 3000 accepts local AC power via the integrated AC Load Center with generator plug for back-up power.

Features and Benefits

Flexibility (Optional Add Features)

- Environmental controls include HVAC, heat exchangers, direct air cooling. Configured to meet application and location needs.
- AC power system with main breaker 12 slot load center and surge protection
- Generator Plug 30 amp for long run time back-up power
- DC power source sized to meet application and distribution needs
- Batteries sized to meet power requirements and back-up power time
- LED light to provide better visual experience of equipment installed on the rack
- Door alarms dry contacts normal closed to provide intrusion alarm

Space Utilization

- Interior rack can be 19" or 23" EIA standard spacing
- Various mounting options – Pad mount, Vault mount

Integrity

- Door gasket is closed cell and attached to cabinet frame compliant with NEMA standards
- Stainless steel hardware to prevent corrosion
- Grounding provisions- with ground straps for doors and master ground bar mounted in cabinet
- Convenience quad receptacle 15amp
- Sunshield to reduce the effects of solar loading
- Lifting eyes on four corners of the cabinet to enable ease of installation
- GR-487 compliant powder coating of cabinet
- Designed to meet UL and NEMA 3R & 4 requirements

Access

- Fiber-first design for access storage, routing and protection of fiber
- Fiber from 144-864 with splitters or WDMs panel
- Standard is Clearview Black Cassette (patch only)
- Cable entry ports with removable plate to facilitate ease of installation when using a vault or mounted on concrete pad
- Stainless steel door stays adjustable from 90 deg to 120 deg openings
- Front and Rear Door with security padlock hasp with ¼ turn sealing mechanism
- Mounting plinth 3" to allow craft friendly installation

Technical Specifications

FieldSmart FiberFlex 3000	
Dimensions	Base cabinet with Battery Compartment: 72"H x 30"W x 36"D
Weight	Cabinet: 325 lbs.
Mounting Options	Pour-in-Place Pad Template, or Split Lid Vault
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
AC/DC Rectifier Option	Configured from 30 amps to 150 amps, consult Clearfield for systems great than 150amps
Battery Capacity	Designed to accommodate 80amp/hr to 200amp/hr front terminal batteries. For top terminal capacity see Clearfield for further information.
Cooling/Environmental	Direct Air Cooling (DAC), Heat Exchanger (HEX), Air-Conditioning with Heat.
Wired Fiber Capacity	Up to 864 Distribution; Standard cassette is Clearview Black for patch only.
Fiber Management Options	Up to 864 position fiber distribution in 144 or 288-port increments, SC/APC connector, loose tube or ribbon. Splitters and WDM in various ratios available. Configurable transport module for fiber separation of subscriber and active equipment transport
Available Rack Units	36RU, 30RU, 20RU, depending on configuration selected. Using the modular design, RU space to increase increments
Safety and Compliance	GR-326, pending UL508a

Configured Part Numbers - "Under Construction"

Mounting Options

Mounting Option	Part Number	Description
Pad	150-00027	TBD

Splitter Options

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