

# FieldSmart®

## FiberFlex 1700 - Convergent



### Application

Clearfield's FiberFlex 1700 Convergent configurations are expertly crafted with a fiber-first design, ensuring optimal separation of your Fiber Distribution from active equipment across various powered cabinet deployment scenarios. This versatile multi-bay cabinet supports a wide range of applications, enabling providers to position more active equipment closer to the network edge.

Designed, tested, and certified to meet GR-487 standards, the FiberFlex 1700 Convergent models stand out as the premier outdoor cabinet solution for even the harshest environments.

### Description

The FiberFlex 1700 Convergent series uses an all-in-one design approach capable of integrating fiber, power (AC & DC) and active equipment using multiple cabinet bays to separate power and active equipment from the fiber distribution. This cabinet offers multiple configuration options, supporting diverse deployment scenarios and featuring a 19" or 23" vertical equipment rack to accommodate the following applications:

- 34RU (17RU X 17RU): Capable of supporting two strings of batteries, one in each enclosure.
- 42RU (17RU X 25RU): Capable of supporting one battery string in the 17RU enclosure.
- 50RU (25RU X 25RU): Capable of supporting lithium battery deployments.



The FiberFlex 1700 Convergent provides two modular enclosures, one enclosure designed to support all customer powered equipment needs and a separate enclosure supporting fiber distribution. Up to 432 internal fiber distribution ports in the 34RU configurations, and up to 576 internal fiber distribution ports in the 42RU and 50RU configurations. The FiberFlex 1700 Convergent offers optional splitter capacity with an integrated 1RU splitter tray, supporting up to 9 ruggedized splitters. For configurations that include splitter support, one integrated splitter tray is provided for every 288 fiber distribution ports. The FiberFlex 1700 Convergent uses local AC power via the integrated AC Load Center with optional generator plug for back-up.

### Features and Benefits

#### Flexibility (Optional 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
- 30-amp Generator Plug 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 (supporting both Lithium and VRLA deployments)
- Internal LED light in the powered equipment bay to provide easier equipment installation in dark/low light environments

#### Space Utilization

- Interior rack can be 19" or 23" EIA standard spacing
- Multi-bay cabinet configurable for pad-mount applications only

#### Integrity

- Closed cell door gasket is attached to cabinet frame compliant with NEMA standards
- Grounding provisions: ground straps for doors and master ground bar mounted in cabinet
- 15-amp convenience quad receptacle
- Solar Shield enclosure lid to reduce the effects of solar loading
- Lifting eyes on four corners of each cabinet to enable ease of installation and connection between cabinets
- Designed, tested, and certified to GR-487

#### Access

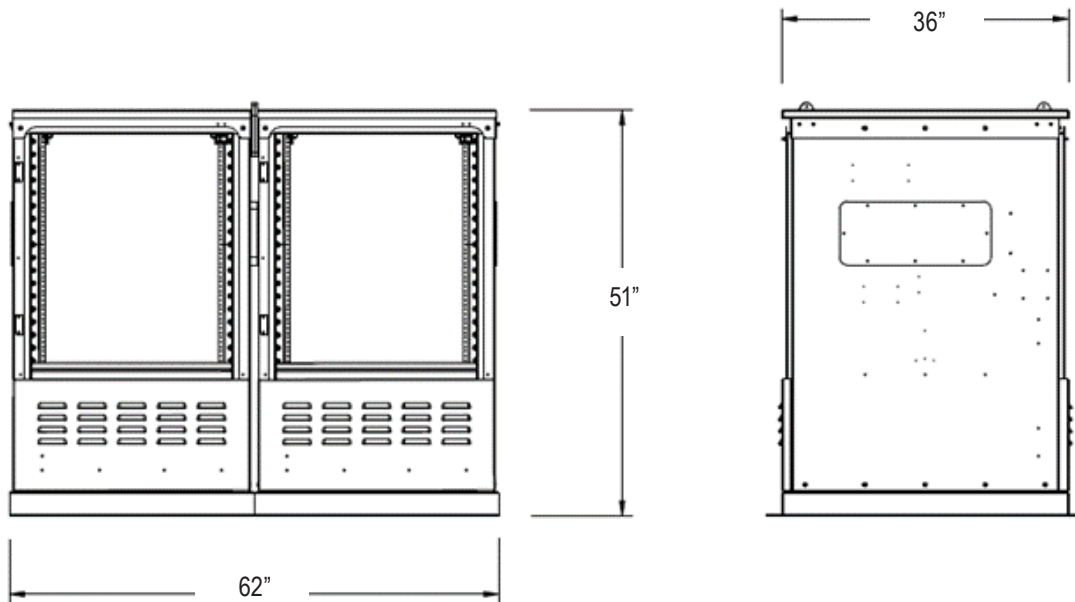
- Fiber-first design for access storage, routing, and protection of fiber
- Internal fiber distribution from 144 to 576 using the Clearview® Blue Cassette with optional splitter tray
- Cable entry ports with removable plate to facilitate ease of installation when using a vault or mounted on concrete pad
- Stainless steel door-stays adjustable from 90-degree to 120-degree openings
- Front and rear door with security padlock hasp and ¼-turn sealing mechanism
- 3-inch mounting plinths for craft-friendly installation

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## Technical Specifications

FieldSmart FiberFlex 1700 - Convergent 34RU	
Dimensions	Base enclosures with battery compartments: 51"H x 62"W x 36"D
Total Available Rack Units	34RU (17RU & 17RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none"> <li>• AC load center &amp; AC load center with Generator Connect</li> <li>• 19" or 23" rack mounting</li> <li>• Heat exchanger (HEX) or air-conditioning with heater</li> <li>• AC/DC Rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)</li> <li>• Up to 432 fiber distribution ports</li> <li>• Two battery compartments to support up to two battery strings</li> </ul>
Additional Details	<ul style="list-style-type: none"> <li>• Active equipment enclosure and fiber equipment enclosure shipped separately</li> <li>• Separate orderable pour-in-place pad template</li> <li>• Cabinet joining collar included</li> </ul>

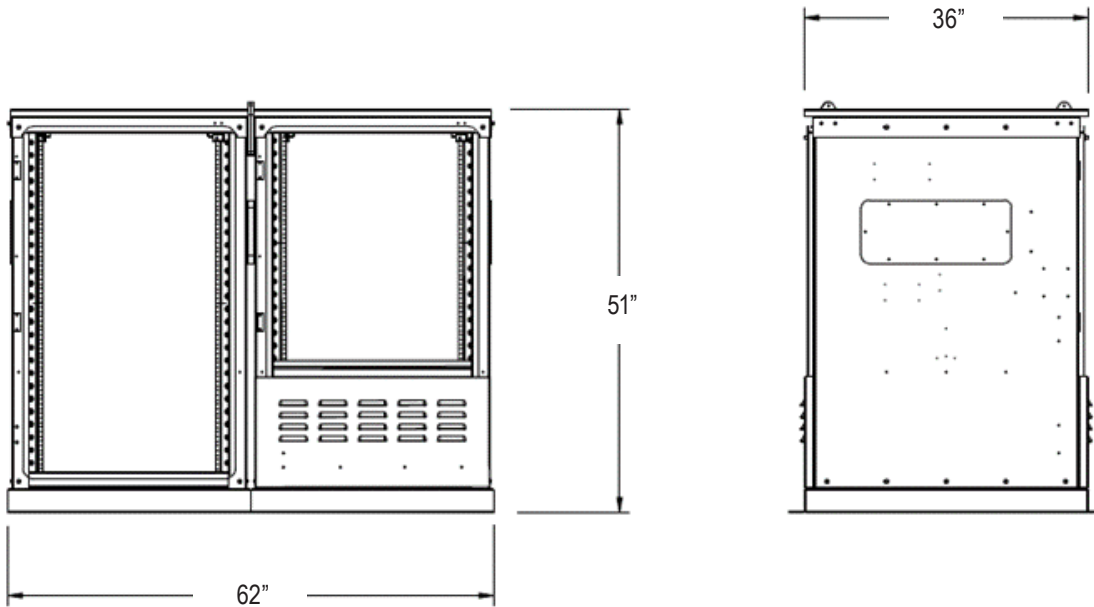


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## Technical Specifications

FieldSmart FiberFlex 1700 - Convergent 42RU	
Dimensions	Base enclosures with battery compartments: 51"H x 62"W x 36"D
Total Available Rack Units	42RU (17RU & 25RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none"> <li>• AC load center &amp; AC load center with generator connect</li> <li>• 19" or 23" rack mounting</li> <li>• Heat exchanger (HEX) or air-conditioning with heater</li> <li>• AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)</li> <li>• Up to 576 fiber distribution ports</li> <li>• One battery compartments to support one battery string</li> </ul>
Additional Details	<ul style="list-style-type: none"> <li>• Active equipment enclosure and fiber equipment enclosure shipped separately</li> <li>• Separate orderable pour-in-place pad template</li> <li>• Cabinet joining collar included</li> </ul>



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### Technical Specifications

FieldSmart FiberFlex 1700 - Convergent 50RU	
Dimensions	Base enclosures with battery compartments: 51"H x 62"W x 36"D
Total Available Rack Units	50RU (25RU & 25RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none"> <li>• AC load center &amp; AC load center with generator connect</li> <li>• 19" or 23" rack mounting</li> <li>• Heat exchanger (HEX) or air-conditioning with heater</li> <li>• AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)</li> <li>• Up to 576 fiber distribution ports</li> <li>• No battery compartments. Integrated support for Lithium deployments available.</li> </ul>
Additional Details	<ul style="list-style-type: none"> <li>• Active equipment enclosure and fiber equipment enclosure shipped separately</li> <li>• Separate orderable pour-in-place pad template</li> <li>• Cabinet joining collar included</li> </ul>

