

FieldSmart®

FiberFlex 3000 - Convergent



Application

Clearfield's FiberFlex 3000 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 3000 Convergent models stand out as the premier outdoor cabinet solution for even the harshest environments.

Description

The FiberFlex 3000 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:

- 60RU (30RU X 30RU): Capable of supporting two strings of batteries, one in each enclosure.
- 56RU (20RU X 36RU): Capable of supporting two battery strings in the 20RU enclosure.
- 72RU (36RU X 36RU): Capable of supporting lithium battery deployments.
- 66RU (30RU X 36RU): Capable of supporting one battery string in the 30RU enclosure.



The FiberFlex 3000 Convergent provides two modular enclosures, one enclosure designed to support all customer powered equipment needs and a separate enclosure supporting fiber distribution. Up to 864 internal fiber distribution ports in the 60RU configurations, and up to 1152 internal fiber distribution ports in the 56RU, 72RU, and 66RU configurations. The FiberFlex 3000 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 3000 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 1152 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

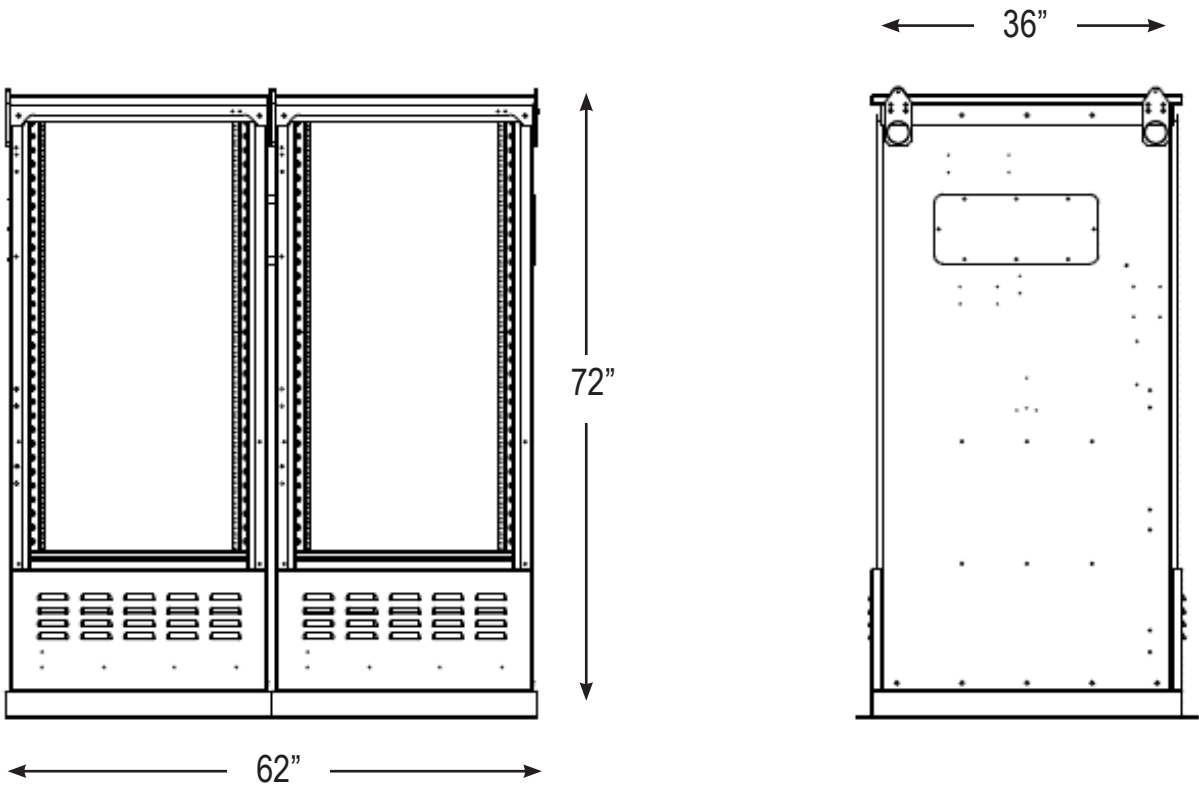
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Technical Specifications

FieldSmart FiberFlex 3000 - Convergent 60RU	
Dimensions	Base enclosures with battery compartments: 72"H x 62"W x 36"D
Total Available Rack Units	60RU (30RU & 30RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none">• AC load center & AC load center with generator connect• 19" or 23" rack mounting• Heat exchanger (HEX) or air-conditioning with heater• AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)• Up to 864 fiber distribution ports• Two battery compartments to support up to two battery strings
Additional Details	<ul style="list-style-type: none">• Active equipment enclosure and fiber equipment enclosure shipped separately• Separate orderable pour-in-place pad template• Cabinet joining collar included



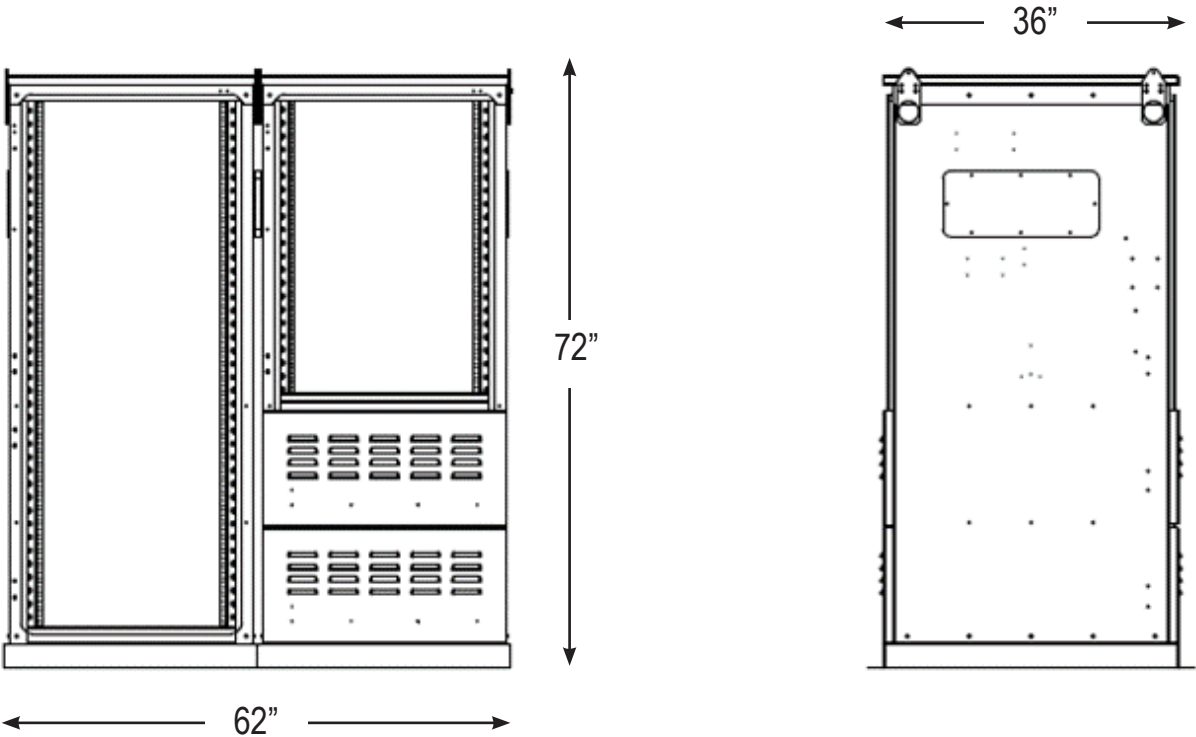
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FiberFlex 3000 - Convergent



Technical Specifications

FieldSmart FiberFlex 3000 - Convergent 56RU	
Dimensions	Base enclosures with battery compartments: 72"H x 62"W x 36"D
Total Available Rack Units	56RU (20RU & 36RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none"> • AC load center & AC load center with generator connect • 19" or 23" rack mounting • Heat exchanger (HEX) or air-conditioning with heater • AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps) • Up to 1152 fiber distribution ports • Two battery compartments to support up to two battery strings
Additional Details	<ul style="list-style-type: none"> • Active equipment enclosure and fiber equipment enclosure shipped separately • Separate orderable pour-in-place pad template • Cabinet joining collar included



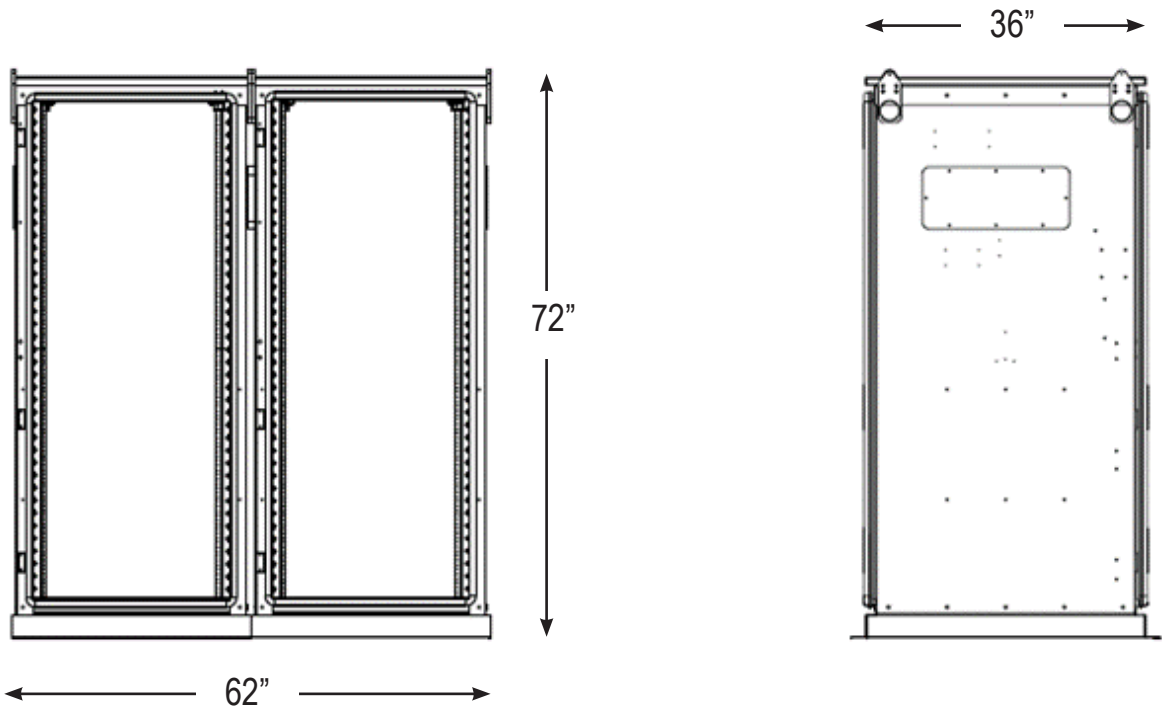
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Technical Specifications

FieldSmart FiberFlex 3000 - Convergent 72RU	
Dimensions	Base enclosures with battery compartments: 72"H x 62"W x 36"D
Total Available Rack Units	72RU (36RU & 36RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none">• AC load Center & AC load center with generator connect• 19" or 23" rack mounting• Heat exchanger (HEX) or air-conditioning with heater• AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)• Up to 1152 fiber distribution ports• No battery compartments. Integrated support for Lithium deployments available
Additional Details	<ul style="list-style-type: none">• Active equipment enclosure and fiber equipment enclosure shipped separately• Separate orderable pour-in-place pad template• Cabinet joining collar included



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Technical Specifications

FieldSmart FiberFlex 3000 - Convergent 66RU	
Dimensions	Base enclosures with battery compartments: 72"H x 62"W x 36"D
Total Available Rack Units	66RU (30RU & 36RU in separate enclosures)
Configurable Options	<ul style="list-style-type: none">• AC load center & AC load center with generator connect• 19" or 23" rack mounting• Heat exchanger (HEX) or air-conditioning with heater• AC/DC rectifier option configured from 30 amps to 150 amps (consult Clearfield for systems greater than 150 amps)• Up to 1152 fiber distribution ports• One battery compartment to support one battery string
Additional Details	<ul style="list-style-type: none">• Active equipment enclosure and fiber equipment enclosure shipped separately• Separate orderable pour-in-place pad template• Cabinet joining collar included

