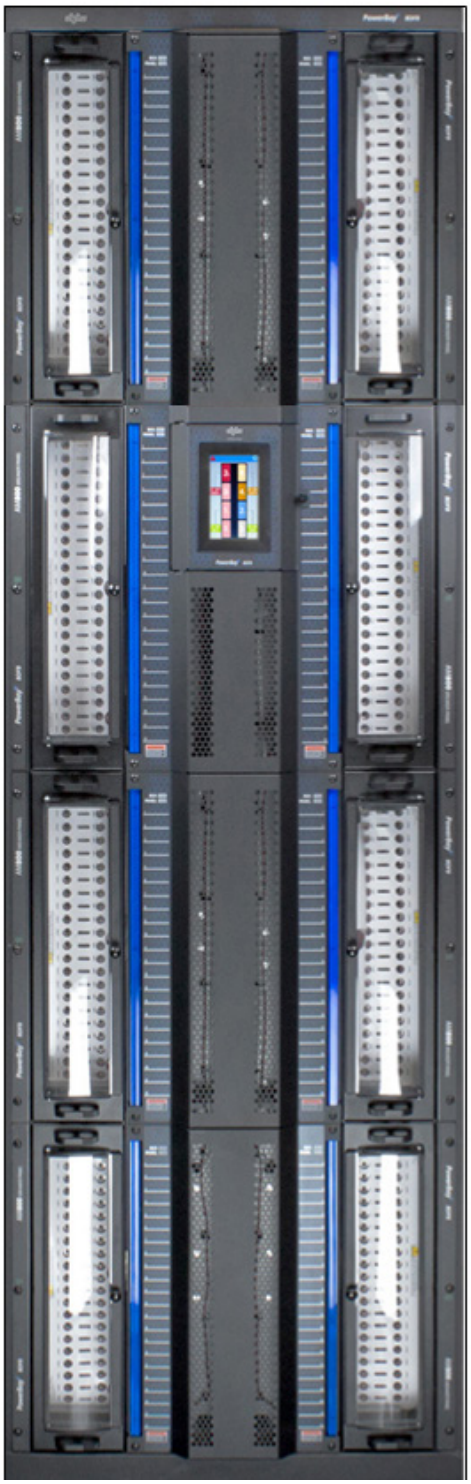
an EnerSys® company

Alpha® PowerBay+ BDFB

Smart Secondary Distribution Bay



- Modular design with field-configurable bus architecture (dual, quad, hexa, or octa bus)
- Top or bottom feed options for flexible installation
- Internal or external return configurations
- Up to eight 800 A or 1,200 A rated distribution panels
- Supports AM bullet breakers (up to 125 A), GJ breakers (up to 250 A), and TPS/TLS fuses
- Protects up to 176 circuits
- Universal breaker support for maximum application flexibility
- Per-circuit current monitoring with RedundancyTracker™
- Hot-swappable distribution panels and field-changeable bus straps

The Alpha® PowerBay+ BDFB is a modular, high-capacity secondary distribution bay designed for telecom, broadband, and data center applications.

Available in 2-, 4-, 6-, or 8-bus configurations, each bus is rated up to 1,200 A, supporting a total load of up to 9,600 A. Bus configurations can be changed in the field by adding or removing bus straps, which can be safely performed while the bay is energized.

The system supports AM bullet breakers up to 125 A per pole, GJ breakers up to 250 A per pole, and TPS/TLS fuses. Up to 176 circuits can be protected in a single bay. Distribution panels are modular and can be added or replaced without powering down the system.

Advanced monitoring features include bus voltage, total bus current, and individual load current. The integrated LCD touchscreen controller provides local visibility, while remote monitoring is supported via HTTP and SNMP. RedundancyTracker™ provides real-time insight into A/B feed redundancy and load distribution.

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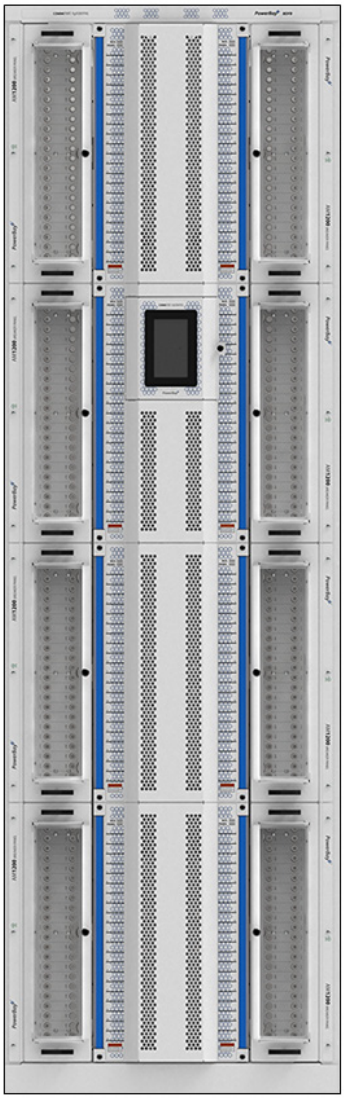
Electrical	
Source Voltage	–48VDC
Number of Buses	2, 4, 6, or 8
Maximum Continuous Panel Capacity	960 A
Total Capacity	7,680 A maximum
Maximum Input Feed	1,200 A

Mechanical	
Dimensions H × W × D	84 × 26 × 28 in. (2134 × 660 × 711 mm)
Net Weight	950 lb (431 kg)

Environmental	
Operating Temperature	32 to 104°F (0 to 40°C)
Relative Humidity	0 to 95% non-condensing
Elevation	Up to 9,842 ft (3,000 m)

Regulatory Compliance	
Safety	CAN/CSA-C22.2 No. 62368-1:19 3rd Edition
	UL 62368-1 3rd Edition



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