alpho DPX Power Source Enclosure System Owner's Manual

an EnerSys® company

DPX Power Source Enclosure System

Contents

DPX Power Source Enclosure System

- Compact footprint ideal for ground mount installations in Right-of-Way for small cell applications
- Provides power for up to 10 small cell nodes from a single grid tap connection
- Wide AC input voltage range (90 to 305 Vac) for worldwide deployment
- Type 3R rated outdoor cabinet with heat exchanger for improved energy efficiency and reduced maintenance costs
- Optional energy storage enclosure available

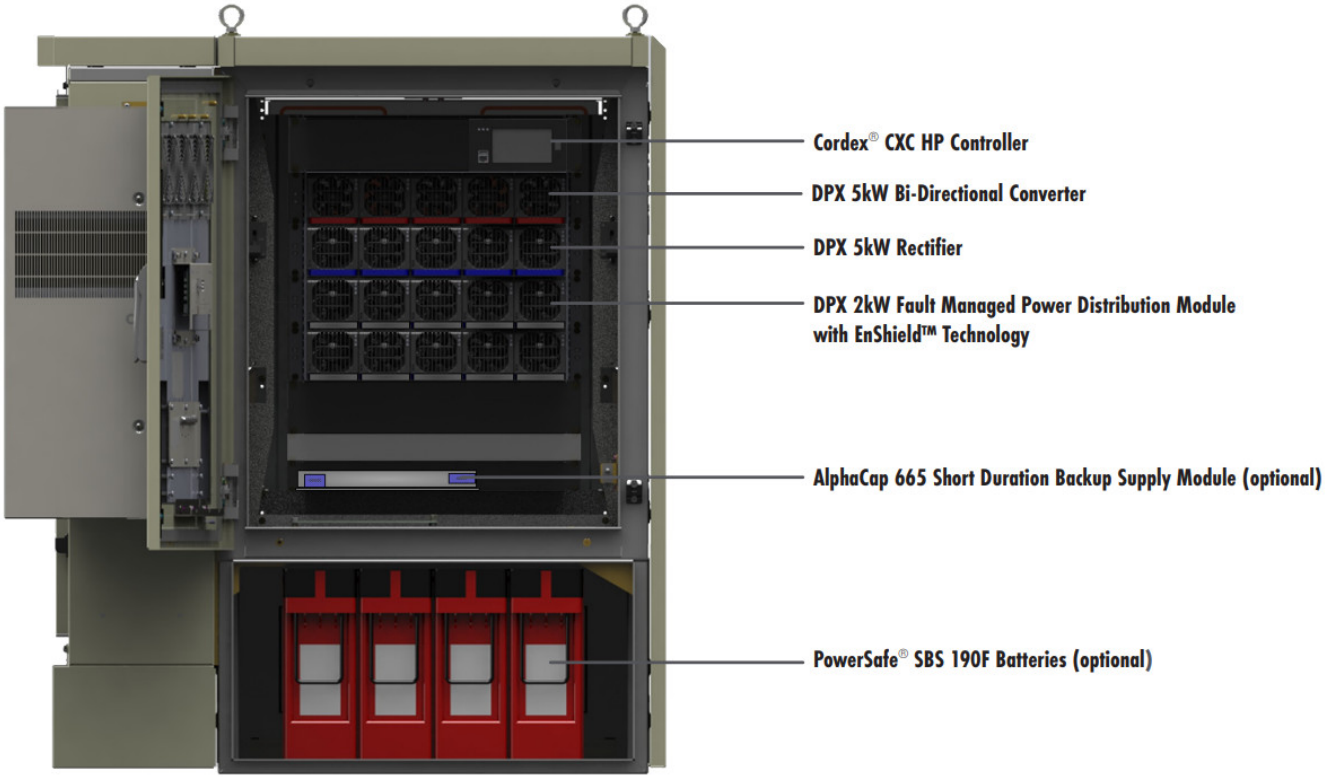
The DPX Power Source enclosure system is part of the distributed power transport product family specifically engineered using the new Alliance for Telecommunications Industry Solutions (ATIS) fault managed power distribution technology.
The DPX Power Source enclosure system is housed in a Type 3R rated enclosure and designed for pole and ground mount installations. The enclosure system can remotely power up to 10 small cell nodes from a single grid tap connection. Optional energy storage cabinet is available to support additional backup time.
Local and remote setup, adjustment and control is a simple single-step process with the system controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser or via local isplay.
Distributed power transport architecture enables operators to deploy their network faster by eliminating the need to have AC utility power at each small cell location. At a central location, the central power hub converts the incoming AC power to fault managed power which is transported over a hybrid or copper only cable to a disconnect box and then to a down converter device located approximately 6000 ft away. This reduces installation

and operating expenses, and provides flexibility related to site selection for the installation of the remote communications equipment

DPX Power Source Enclosure System

Consult your Alpha® sales representative for system configurations.

Electrical	
Input Voltage	Nominal: 208 to 277 Vac
	Operating: 187 to 305 Vac
	Extended: 90 to 187 Vac (derated power)
Input Frequency	45.0 Hz to 66.0 Hz
Power Factor	>95% (10 to 100% load)
THD	<5% (50 to 100% load)
Output Voltage	±190 Vdc
Output Power	10 × 2000 W channels
Acoustic	<65 dbA
Features	
Protection	•Pad-lockable door handles •1 x 20kA AC surge suppression •10 x 20kA DC surge suppression
Energy Storage Support Options	• AlphaCap 665 for short duration backup of Cordex® CXC HP controller • PowerSafe® SBS 190F batteries installed inside PSE for bac kup, up to 5 channel outputs •Energy storage enclosure for extended backup
Mechanical	
Dimensions H × W × D	Overall: 1232 × 1016 × 889 mm (48 × 40 × 35 in.)
	Footprint: 1232 × 1016 × 610 mm (48 × 40 × 24 in.)
Weight	180 kg (397 lb)
Mounting	•Ground •Pole (no battery application)
Cooling	130 W/◦C (72 W/◦F) Heat Exchanger
Environmental	
Temperature	Operating: –40 to 46°C (–40 to 115°F); plus solar loading
	Storage: –40 to 85°C (–40 to 185°F)
Relative Humidity	5 to 95% non-condensing
Elevation	Up to 3,000 m (9,842 ft)
Cabinet Rating	Type 3R
Agency Compliance	
Safety	•CSA-US Field Evaluation •ATIS (Pending) •CSA/UL 62368-1 (Pending)



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Documents / Resources

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