



CabD 3000+

Power system

Description

CabD is Delta's robust indoor cabinet developed for expandable telecom power systems. Maximum current carrying capacity of single cabinet bus bars is >3000 A. Total load current in parallel configurations may be from 3000 A up to 15000 A when distributing rectifiers, battery and load connections evenly.

A complete system includes high efficiency rectifiers, AC and DC connections, battery connection and the advanced ORION controller. Typical setup for CabD 3000+ is a bulk power concept. The rectifiers, battery connection and load distributions are possible to configure in a separate cabinets. For a compact solution, combination cabinet with rectifiers and dc connections is also possible.

The multi cabinet CabD 3000+ power system is easy to define with a table-based technical configuration file. Breaker ratings, layout among other features can be custom configured according to customer requirement.

Delta is known for quality and product reliability – in this solution that has been combined to optimize the total cost of ownership.

Main features

- Scalable power system up to 3000 A per cabinet and high power paralleled
- Truly modular building blocks
- Mirroring the system built for top entry or bottom entry for cabling
- High efficiency rectifiers up to 96,5 %
- Enhanced monitoring and controlling with ORION controller

Applications

- Central offices
- Mobile telephone switching offices
- Data centers

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Technical specifications

Rectifier section	DPS 4000B-48-36	DPS 6000B-48-24
Rectifier module	DPR 4000B-48	DPR 6000B-48
Efficiency	95,2 %	96,5 %
Install power (/ cab.)	144 kW	144 kW
Input voltage range	188 – 305 V _{RMS L-N'} (* linear power derating below until 88 V _{RMS L-N (38% power)})	320 – 528 V _{RMS L-N'} (* linear power derating below until 260 V _{RMS L-L (33% power)})
Input current (3 phase)	48 A _{RMS} (per rectifier shelf) 288 A _{RMS} (per cabinet)	48 A _{RMS} (per rectifier shelf) 288 A _{RMS} (per cabinet)
Input fuse (recom.)	6x (3 x 50 A)	6x (3 x 50 A)

AC input	
Mains connection	Cable / Screw terminals
AC configuration	3L + PE (DPR 6000B-48 based), 3L + N + PE (other rectifiers), Other configurations by request
Nominal input voltage	400 V _{RMS} (L-L), 230 V _{RMS} (L-N)
Frequency range	45 ... 66 Hz

Control / Monitoring	
Controller	ORION
Local interface	Display, menu structure, touch interface
Remote monitoring	Alarm relays, modems, WEB Interface, SNMP protocol

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DC interfaces	
Output voltage range	42-58 V _{DC} ; 53.5 V _{DC nom.}
Output current (max.)	3000 A per cabinet
Load distribution options	30x MCB18 20x MCB27 13x 22x58 14 x NH00 7 x NH02 6 x NH03
Battery connection options	1-4 x TPS2 (up to 1600 A) 1-4 x NH2/3 (up to 630 A)
LVD (battery)	Optional

Ordering	
System configurator	3799604000
Rectifier DPR 6000B-48	TPS1010006A
Rectifier DPR 4000B-48	TPS1010016C

Others	
Cabinet dimensions	2000x600x600 mm or 2200x600x600 mm
Weight	90 - 170 kg
Operating temperature	5 - 40 °C (class 3.1)
Humidity (relative)	95 % max, non cond.
Environment standard	ETSI EN 300 019-1-3
Safety standard	EN 62368-1
EMC standard	EN 300 386
Packing	Vertical/ horizontal

