



# CabD 1500

## 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 1500 A. Total load current in parallel configurations may be from 1500 A to over 6000 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 1500 is a combined power concept. The rectifiers, battery connection and load distributions are possible to configure in a single cabinet. Optionally modularity allows building rectifiers and dc-distribution in separate cabinets.

The multi cabinet CabD 1500 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 1500 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 98 %
- 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 2900B-48-24	DPS 3000B-48-24	DPS 4000B-48-18	DPS 6000B-48-12
Rectifier module	DPR 2900B-48	DPR 3000B/E-48	DPR 4000B-48	DPR 6000B-48
Efficiency	96.4 %	96.4 % or 98 %	95,2 %	96,5 %
Install power (/ cab.)	69,6 kW	72 kW	72 kW	72 kW
Input voltage range	176 - 300 V <sub>RMS L-N</sub> <sup>1</sup> (* linear power derating below until 88 V <sub>RMS L-N</sub> (47% power) )	184 - 300 V <sub>RMS L-N</sub> <sup>1</sup> (* linear power derating below until 88 V <sub>RMS L-L</sub> (45% power) )	188 - 305 V <sub>RMS L-N</sub> <sup>1</sup> (* linear power derating below until 88 V <sub>RMS L-L</sub> (38% power) )	320 - 528 V <sub>RMS L-L</sub> <sup>1</sup> (* linear power derating below until 260 V <sub>RMS L-L</sub> (33% power) )
Input current (3 phase)	34 A <sub>RMS</sub> (per six rectifiers) 136 A <sub>RMS</sub> (per cabinet)	37 A <sub>RMS</sub> (per rectifier shelf) 148 A <sub>RMS</sub> (per cabinet)	48 A <sub>RMS</sub> (per rectifier shelf) 144 A <sub>RMS</sub> (per cabinet)	48 A <sub>RMS</sub> (per rectifier shelf) 144 A <sub>RMS</sub> (per cabinet)
Input fuse (recom.)	4x (3 x 40 A)	4x (3 x 40 A)	3x (3 x 50 A)	3x (3 x 50 A)

AC input	
Mains connection	Cable / Screw terminals
AC configuration	3L + PE (DPR 6000B-48) or 3L + N + PE
Nominal input voltage	400 V <sub>RMS</sub> (L-L), 230 V <sub>RMS</sub> (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 <sub>DC</sub> ; 53.5 V <sub>DC nom.</sub>
Output current (max.)	1500 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	3799600100
Rectifier DPR 6000B-48	TPS1010006A
Rectifier DPR 4000B-48	TPS1010016C
Rectifier DPR 3000B-48 96,4 % Rectifier DPR 3000E-48 98 %	ESR-48/60A A-S TPS1010027A-PML-S
Rectifier DPR 2900B-48 96,4%	ESR-48/56B F C-A

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	IEC 60950
EMC standard	EN 300 386
Packing	Vertical/ horizontal

