



# CabD 1000

## Power system

### Description

CabD is Delta's robust indoor cabinet developed for expandable telecom power systems. Maximum current carrying capacity of a single cabinet bus bars is 1000 A. Total load current in parallel configurations may be from 1000 A to over 4000 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 1000 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 1000 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 has reputation in quality and product reliability – in this solution, these combine to optimize the total cost of ownership.

### Main features

- Scalable power system up to 1000 A per cabinet and high power paralleled
- Truly modular building blocks
- Mirroring the system build 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-48-16/20	DPS 3000B-48-18	DPS 4000B-48-12	DPS 6000B-48-8
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.)	46,4 or 58 kW	54 kW	48 kW	48 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) 102 or 119 A <sub>RMS</sub> (per cabinet)	37 A <sub>RMS</sub> (per rectifier shelf) 111 A <sub>RMS</sub> (per cabinet)	48 A <sub>RMS</sub> (per rectifier shelf) 96 A <sub>RMS</sub> (per cabinet)	48 A <sub>RMS</sub> (per rectifier shelf) 96 A <sub>RMS</sub> (per cabinet)
Input fuse (recom.)	3x or 4x (3 x 40 A)	3x (3 x 40 A)	2x (3 x 50 A)	2x (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	2-58 V <sub>DC</sub> ; 53.5 V <sub>DC nom.</sub>
Output current (max.)	1000 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	3799598600
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	2000/2200x600x600 mm
Weight	80 - 150 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 for truck transport, Horizontal for air/ship

