

# CabD 600

## Power System



### Descriptions

CabD is Delta's robust indoor cabinet developed for telecom power systems. The number 600 defines the maximum current carrying capacity of cabinet bus bars.

A complete system includes high efficiency rectifiers, AC and DC connections, battery connection and the advanced ORION controller.

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 600 A
- Truly modular building blocks
- High efficiency rectifiers up to 96.2 %
- Enhanced monitoring and controlling with ORION controller

### Applications

- Central offices
- Mobile telephone switching offices
- Data centers



# CabD 600

## Power System

### Technical specifications

1. Input	
AC configuration	3L + PE (DPR 6000B-48 based), 3L + N + PE (DPR 2900B/4000B)
Input voltage range	400 V <sub>RMS</sub> (L-L), 230 V <sub>RMS</sub> (L-N)
Frequency range	45 - 66 Hz
Mains connection	Cable / Screw terminals
Main switches	Optional
Individual rectifier fuses	Optional
Lightning protection	Optional for single input

2. Output	
Output voltage range	42-58 V <sub>DC</sub> ; 53.5 V <sub>DC nom.</sub>
Output current	600 A
Load breakers	30 x MCB (1-3 per cabinet) 40 x MHCB (1-3 per cabinet) 13 x 22 x 58 (1-3 per cabinet) + combinations
Battery breakers	8-9P x MCB 27 mm 6 x NH00 2-3 x NH02 2-3 x EFEN02 2 x EFEN03
LVD	Optional (battery)

3. Control / Monitoring	
Controller	ORION
Local interface	Display, menu structure, key-pads, LEDs
Remote monitoring	6 alarm relays, modems, WEB Interface, SNMP protocol

4. General	
Rectifier section	DPS 2900B-48-12 DPS 4000B-48-6 DPS 4000B-48-12 DPS 6000B-48-4 DPS 6000B-48-8
Rectifier module	DPS 2900B-48 DPS 4000B-48 DPS 4000B-48 DPS 6000B-48 DPS 6000B-48

Efficiency	96.2 % 95 % 95 % 95 % 95 %
Install power	34.8 kW z1016088 24 kW 48 kW 24 kW 48 kW (max. per cabinet)
Input voltage range	176 (*) - 300 V <sub>RMS L-L</sub> , (* linear power derating below until 88 V <sub>RMS L-L</sub> (1350 W) ); 184 - 300 V <sub>RMS L-N</sub> , (* linear power derating below until 88 V <sub>RMS L-L</sub> (1500 W) ); 184 - 300 V <sub>RMS L-N</sub> , (* linear power derating below until 88 V <sub>RMS L-L</sub> (1500 W) ); 320 (*) - 528 V <sub>RMS L-L</sub> , (* linear power derating below until 266 V <sub>RMS L-L</sub> (4500 W) ); 320 (*) - 528 V <sub>RMS L-L</sub> , (* linear power derating below until 266 V <sub>RMS L-L</sub> (4500 W) )
Input current	34 A <sub>RMS</sub> (two inputs) 68 A <sub>RMS</sub> (one input); 48 A <sub>RMS</sub> ; 48 A <sub>RMS</sub> (two inputs) 96 A <sub>RMS</sub> (one input); 48 A <sub>RMS</sub> ; 48 A <sub>RMS</sub> (two in-puts) 96 A <sub>RMS</sub> (one input); (3 phase)
Input fuse	2x (3x 40 A) or 3x 80 A 3x 50 A 2x (3x 50 A) or 3x 100 A 3x 50 A 2x (3x 50 A) or 3x 100 A (recom.)
Input protection	Internal OVP, Inbuilt fuses High input voltage
Output protection	Inbuilt fuses (all poles) High voltage Over-temperature protection; Inbuilt fuses (both poles) High voltage Over-temperature protection;

#### DELTA ELECTRONICS, INC.

3 Tungyuan Road, Chungli Industrial Zone,

Taoyuan City 32063, Taiwan.

TEL : +886-3-452-6107 FAX : +886-3-452-7314

<http://www.deltaww.com/>

Fact\_Sheet\_CabD\_600\_en\_rev01



# CabD 600

## Power System

	Inbuilt fuses (both poles) High voltage Over-temperature prot.; Inbuilt fuses (both poles) High voltage Over-temperature prot.; Inbuilt fuses (all poles) High voltage Over-temperature protection
Cabinet dimensions	600 x 1800 x 600 mm (W x H x D) 600 x 2000 x 600 mm (W x H x D) 600 x 2200 x 600 mm (W x H x D)
Weight	60-130 kg

### 5. Others

Operating temperature	-25 - +45 °C
Humidity	95 % max, non cond. (relative)
Environment standard	ETSI EN 300 019-1-3
Safety standard	IEC 60950
EMC standard	EN 300 386
Packing	Vertical for truck transport Horizontal for shipping / air

### 6. Ordering information

System configurator	3799363900
Rectifier DPS 2900B-48	ESR-48/56B F-S
Rectifier DPR 6000B-48	TPS1010006A
Rectifier DPR 4000B-48	TPS1010016C

\*All specifications are subject to change without prior notice.

#### DELTA ELECTRONICS, INC.

3 Tungyuan Road, Chungli Industrial Zone,  
Taoyuan City 32063, Taiwan.

TEL : +886-3-452-6107 FAX : +886-3-452-7314

<http://www.deltaww.com/>

Fact\_Sheet\_CabD\_600\_en\_rev01

