

# CellD 300

## Power System



### Descriptions

CellD systems are small, just like cells. They can be embedded in the telecom infrastructure and are often used in OutD outdoor solutions. The products in this series are light and designed especially for installations with limited space offering high density of the installed power.

The system includes high efficiency rectifiers, AC and DC connections, battery connection and either ORION or PSC 3 controller. In addition to advanced supervision, short depth and easy installation are the success factors of the system. Delta is known for quality and product reliability – in this solution that has been combined to optimize the total cost of ownership.

### Main features

- 19in or 21in rack mounted system up to 250 A loads
- Integrated distribution unit and rectifiers shelf with combinations from 4U to 7U
- High efficiency rectifiers up to 97,2 %
- All connections easily accessible from the top
- All battery and load breakers accessible at the front
- Sliding mechanism to support easy access to the output connections
- Option for enhanced monitoring and controlling

### Applications

- Wireless applications, network base stations, LTE
- Fixed line applications, broadband services
- Transmission



# CellD 300

## Power System

### Technical specifications

1. Input	
AC configuration	1x 3PH, 2x 3PH or configurable
Input voltage range	80 ... 300 V <sub>RMS</sub>
Frequency range	45 - 66 Hz
Mains connection	Cable / Screw terminals
Input protection	N loss, Internal OVP, Inbuilt fuses (L+N), High input voltage

2. Output	
Output voltage range	42-58 V <sub>DC</sub> ; 53.5 V <sub>DC nom.</sub>
Output current	250 A (Max.)
Load breakers	15-21 x 18 mm MCB (19IN), 21-24 x 13 mm MCB (19IN), 18-24 x 18 mm MCB (21IN), 25 x 13 mm MCB (21IN) (space depends on frame size, battery fuses and breaker type)
Battery breakers	2-6 x MCB (up to 125A), 2-3 x MCB (up to 200A), 2 x MCB (up to 300A)
LVD	250 A (standard) (battery)
PLD	150 A or 250 A (option) (not critical loads)
Output protection	Inbuilt fuses (both poles) High output voltage, Over-temperature protection

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

4. General	
Rectifier module	DPR 1600B-48 (Max. 6 pcs.) DPR 1600B-48 (Max. 9 pcs.) DPR 2400B-48 (Max. 5 pcs.) DPR 2900B-48 (Max. 3 pcs.) DPR 2900B-48 (Max. 3 pcs.) DPR 2900B-48 (Max. 6 pcs.) DPR 2900B-48 (Max. 6 pcs.) DPR 2900B-48 (Max. 6 pcs.) DPR 4000B-48 (Max. 5 pcs.)
Efficiency	92 % 92 % 93.5 % 96.4 % or 97.2 % 96.4 % or 97.2 % 96.4 % or 97.2 % 96.4 % or 97.2 % 96.4 % or 97.2 % 95 %
Install power	9.6 kW (Max. config.) 14.4 kW (Max. config.) 12 kW (Max. config.) 8.7 kW (Max. config.) 8.7 kW (Max. config.) 14.5 kW (Max. config.) 17.4 kW (Max. config.) 17.4 kW (Max. config.) 20 kW (Max. config.)
Input current	19 A <sub>RMS</sub> 28.5 A <sub>RMS</sub> 12 A <sub>RMS</sub> 8.7 A <sub>RMS</sub> 8.7 A <sub>RMS</sub> 14.5 A <sub>RMS</sub> 17.4 A <sub>RMS</sub> 17.4 A <sub>RMS</sub> 20 A <sub>RMS</sub> (3 phase)
Input protection	3x20 A (recom.) 3x32 A (recom.) 3x32 A (recom.) 3x20 A (recom.) 3x20 A (recom.) 3x40 A (recom.) 3x40 A (recom.) 3x40 A (recom.) 3x40 A (recom.) 3x50 A (recom.)
Height	266 mm (6U) (overall) 311 mm (7U) (overall) 222 mm (5U) (overall)

#### 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\_CellD\_300\_en\_rev06



# CellID 300

## Power System

	222 mm (5U) (overall) 177 mm (4U) (overall) 222 mm (5U) (overall) 266 mm (6U) (overall) 222 mm (5U) (overall) 266 mm (6U) (overall)
Width	444 mm (19") (body) 444 mm (19") (body) 444 mm (19") (body) 444 mm (19") (body) 495 mm (19") (body) 444 mm (19") (body) 444 mm (19") (body) 495 mm (19") (body) 444 mm (19") (body)
Depth	315 mm (overall) 315 mm (overall) 410 mm (overall) 315 mm (overall) 315 mm (overall) 315 mm (overall) 315 mm (overall) 315 mm (overall) 315 mm (overall) 455 mm (overall)
Weight	14-25 kg

5. Others	
Operating temperature	-45 - +65 °C
Humidity	95 % max, non cond. (relative)
Environment standard	ETSI EN 300 019-1-3
Safety standard	IEC 60950
EMC standard	EN 300 386

6. Ordering information	
System	3791605600
Rectifier DPR 1600B-48	TPS1010001B
Rectifier DPR 2400B-48	TPS1010002A
Rectifier DPR 2900B-48 96.4 %	ESR-48/56B F C-A
Rectifier DPR 2900B-48 97.2 %	ESR-48/56D A-M
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\_CellID\_300\_en\_rev06

