

CellD 300

Power system



Description

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 ORION 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

- 19" rack mounted system up to 250 A loads
- Integrated distribution unit and rectifiers shelf with combinations from 5U to 6U
- High efficiency rectifiers up to 96.4 %
- All connections easily accessible from the top
- All battery and load breakers accessible at the front
- Option for enhanced monitoring and controlling

Applications

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

CellID 300

Telecom Power System

Technical specifications

	DPS 2900B-48-3	DPS 2900B-48-5	DPS 2900B-48-6
Rectifier module	DPR 2900B-48	DPR 2900B-48	DPR 2900B-48
Efficiency	96,4 %	96,4 %	96,4 %
Install power (max. config.)	8.7 kW	14.5 kW	17.4 kW
Max input current (per 1 phase)	17 ARMS	34 ARMS	34 ARMS
Input protection (recom.)	3 x 20 A	3 x 40 A 2 x (3 x 20 A)	3 x 40 A 2 x (3 x 20 A)
Height (overall)	221 mm (5U)	221 mm (5U)	265 mm (6U)
Width (body)	445 mm	445 mm	445 mm
Depth	321 mm	321 mm	321 mm
Weight	11 kg	12 kg	13 kg

AC input	
AC configuration	1 x 3Ph, (optionally for 2900 W versions: 2 x 3Ph, 3 x 1Ph, 6 x 1Ph)
Input voltage range	80 ... 300 V _{RMS}
Frequency range	45 - 66 Hz
Mains connection	Cable / Screw terminals
Input protection	N loss, Internal OVP, Inbuilt fuses (L+N), High input voltage

DC output	
Output voltage range	42-58 V _{DC} ; 53.5 V _{DC nom.}
Output current (max.)	250 A
Load breakers (space depends on frame size, battery fuses and breaker type)	Up to 63 A per pole: 15-21 x 18 mm MCB
Battery breakers	6 x MCB (up to 125A) 3 x MCB (up to 200A) 2 x MCB (up to 300A)
LVD/ LVLD (battery)	150 A, 250 A or 300 A (optional)
PLD (not critical loads)	150 A or 250 A (optional)

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Control / Monitoring	
Controller	ORION
Local interface	Display with touch panel
Remote monitoring	6 alarm relays, modems, WEB Interface, SNMP protocol

Ordering	
System	3799624700
DPR 2900B-48 96,4 %	ESR-48/56B F C-A

Others	
Operating temperature	-40 - +65 °C
Humidity (relative)	95 % max, non cond.
Environment standard	ETSI EN 300 019-1-3
Safety standard	EN 62368-1
EMC standard	EN 300 386
Sliding mechanism	Optional by two versions 250/400. Cabinet must be equipped with front and rear vertical rack rails. Distance between mating surface on front of the two vertical rails is either 250 mm or 400 mm.

