

CellD 100

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 ORIONtouch 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 rack mounted system up to 100 A load current

Integrated 1U distribution unit + rectifier shelf 1U

High efficiency rectifiers up to 96.4 %

All connections easily accessible from the top or optionally on the rear panel

All battery and load breakers accessible at the front

Sliding mechanism to support easy access to the top output connections

Option for enhanced monitoring and controlling

Applications

Wireless applications, network base stations, LTE

Fixed line applications, broadband services

Transmission



CellID 100

Power system

Technical specifications

	DPS 850B-48-6 CellID 100	DPS 2900B-48-3 CellID 100
Rectifier module	DPR 850B-48 (max. 6 pcs.)	DPR 2900B-48 (max. 3 pcs.)
Efficiency	95.2 %	96.4 %
Install power (max. config.)	5.1 kW	8.7 kW
Input current	3x8 A _{RMS} (3L+N+PE)	3x13 A _{RMS} (3L+N+PE)
Input protection (recom.)	3x10 A (3L+N+PE)	3x20 A (3L+N+PE)
Height (overall)	86.8 mm (2U)	86.8 mm (2U)
Width (body)	444 mm (19")	444 mm (19")
Depth (overall) (body)	295 mm	323 mm
Weight	7.0 kg	7.0 kg

AC input

AC configuration	3L + N + PE
Input voltage range	80 ... 300 V _{RMS}
Frequency range	45 – 66 Hz
Mains connection	Screw terminals or 2 m cable (IEC 60309-2 plug / open end)
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.)	100 A
Load breakers	12 x (2 – 30 A) or 4 x (16 – 100 A)
Battery breakers	2 x 100A
LVD (battery)	Yes
PLD (not critical loads)	Optional
Critical / non critical loads configuration	6 pc / 6 pc or 2 pc / 2 pc
Output protection	Inbuilt fuses (both poles)

Over-temperature protection

Control / Monitoring

Controller	ORIONtouch
Local interface	Display with touch panel
Remote monitoring	6 alarm relays, modems, WEB Interface, SNMP protocol

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 (& EN 60950-1)
EMC standard	EN 300 386

Ordering

System	3799361100
Rectifier DPR 850B-48	TPS1010004C-PML-M
Rectifier DPR 2900B-48	ESR-48/56B F C-A

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