

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 either Delta PSC 3 or CSU 502 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 96,2 %
- 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



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 %	96.2 %
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)	300 mm	300 mm
Weight	7.0 kg	7.0 kg

AC input	
AC configuration	6 x (L + N + PE) or 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)
Battery breakers	2 x 100A
LVD (battery)	Yes
PLD (not critical loads)	Optional
Critical / non critical loads configuration	6 pc / 6 pc

Output protection	Inbuilt fuses (both poles) Over-temperature protection
-------------------	-----------------------------------------------------------

Control / Monitoring	
Controller	PSC 3 or CSU 502
Local interface	Display, menu structure, keypads, LEDs
Remote monitoring	6 alarm relays, modems, WEB Interface, SNMP protocol

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

Ordering	
System	3791591000
Rectifier DPR 850B-48	TPS1010004B-PML-M
Rectifier DPR 2900B-48	ESR-48/56B F-S

Delta Energy Systems (Finland) Oy

Juvan teollisuuskatu 15, FIN-02921 Espoo

Phone: +358 9 849 660, Fax: +358 9 8496 6100

www.deltapowersolutions.com

Fact_sheet_CellID_100_en.doc / Rev. 05 / RPä