

CellD 125

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 Delta ORION or PSC3 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 8.7 kW
- Integrated 19IN 3U power system
- 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



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Technical specifications

1. Input

AC configuration	3L + N + PE or 3 x (L + N + PE) or L+N+PE
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

2. Output

Output voltage range	42-58 V _{DC} ; 53.5 V _{DC} nom.
Output current	125 A (Max.)
Load breakers	11 x MCB (DPS 2900B-48-3) 9 x MCB (DPS 1600B-48-4) (18 mm)
Optionally narrow load breakers	15 x MCB (DPS 2900B-48-3) 12 x MCB (DPS 1600B-48-4) (13 mm)
Battery breakers	2 x MCB (80 – 125A)
LVD	200 A (standard) (battery)
PLD	100 A (option) (not critical loads)
Critical / non critical loads configuration	5 x MCB + 4-6 x MCB (depending on rectifier type) (18 mm)
Critical / non critical loads configuration	7 x MCB + 5-8 x MCB (depending on rectifier type) (13 mm)
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. 4 pcs.) DPR 2900B-48 (Max. 3 pcs.)
Efficiency	92 % 96.4 % or 97.2 %
Install power	6.4 kW (Max. config.) 8.7 kW (Max. config.)
Input current	19 A _{RMS} (L1) , 9.5 A _{RMS} (L2&L3) 17 A _{RMS}
Input protection	3x20 A (recom.)
Height	133.5 mm (3U) (overall)
Width	481.5 mm (19") (body)
Depth	278.5 mm (overall) 329 mm (overall)
Weight	15 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 2900B-48 96.4 %	ESR-48/56B F C-A
Rectifier DPR 2900B-48 97.2 %	ESR-48/56D A-M

*All specifications are subject to change without prior notice.

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