

Flatpack S 1U Systems

1U x 19" 48V - 2R / 3R



Compact 1U power systems

Increasing network speed demands flexible and expandable DC power solutions. Due to its small size, high efficiency, reliability and wide range of communication, the Flatpack S System is the key for future needs. The shallow depth makes the system suitable for most cabinets and thereby excellent as a replacement unit.

Application

- Telecom - mobile / wireless
 - Radio base stations / cell sites
 - LTE / 4G / WiMAX
 - Distributed antenna systems
 - Microwave
 - Broadband
- Telecom - fixed
 - Telephony servers / switches
 - Fiber optics / FTTX
 - Microwave
 - Cable
 - Broadband

Key features

- Complete system
 - Smartpack S controller
 - Rectifiers
 - Battery distribution
 - Load distribution
- 262 mm system depth
- 1U height
- Hot pluggable rectifiers
- Hot pluggable controller
- Advanced control and monitoring through ethernet port
- 2R (40A) load options
 - 7x 30A MCB drawer (Optional LVLD)
 - 4x 30A MCB front
 - 7x 15A fuse front
- 3R (100A) load options
 - 2x 80A

Flatpack S 1U Systems

1U x 19" 48V - 2R / 3R

Model	1 Controller + 2 Rectifiers	1 Controller + 3 Rectifiers
Part number	CTOS0201.xxx	CTOS0301.xxx

Input data		
Voltage	100 - 250 V _{AC}	100 - 250 V _{AC}
Mains configuration	230 V _{AC} , 1 phase or 2x 1phase	230 V _{AC} , 3x 1 phase or 3 phase (Δ) 230 / 400 V _{AC} , 3 phase (Y)
Mains connection	2,5 mm ² terminal blocks, rear connection	
Frequency	45 to 66 Hz	

Output data		
Voltage	- 48 V _{DC}	- 48 V _{DC}
Max. current	40 A	100 A

Battery distribution		
LVBD	Default	Default
Breaker (plug-in type) maximum rating	2x 40 A ¹⁾	2x 80 A ¹⁾
Connection (rear)	16 mm ² terminal blocks	M6 cable lug

Load distribution		
Rear connections	N/A	M6 cable lug
Rear cable entry, front access Connections, screw terminals Optional LVLD	7x 30 A MCB ²⁾ 7x 4 mm ² on MCB 1 and 2	N/A
Front connections Plug-able screw terminals	4x 30 A MCB / 7x 15 A Fuse 4mm ²	N/A

Control and monitoring		
Smartpack S	6x input/output and ethernet, see Smartpack S datasheet	

Flatpack S 1U Systems

1U x 19" 48V-2R/3R

Mechanical data		
Dimensions (W / H / D)	19" / 1U / 262 mm Recommended minimum distance in front and rear of system is 30 mm	
Weight, including controller and distributions, excluding rectifiers	5.3 kg [11.7 lbs]	5.2 kg [11.5 lbs]

Design standards	
Electrical safety	EN IEC 62368-1:2020+A11:2020
EMC	ETSI EN 300 386 EN 61000-6-1 (immunity, light industry) EN 61000-6-2 (immunity, industry) EN 61000-6-3 (emission, light industry) EN 61000-6-4 (emission, industry)
Environment	ETSI EN 300 019-2-1 Class 1.2 ETSI EN 300 019-2-2 Class 2.3 ETSI EN 300 019-2-3 Class 3.2 Normal operating conditions as per IEC 62040-5-3:2016 clause 4.2. Other operating conditions as per IEC 62040-5-3:2016 clause 4.3, must be advised

- 1) If only one string is used, one of the battery breakers can be configured as a load breaker.
- 2) Drawer solution, front access for actual connection, but cables enters from rear

Specifications are subject to change without notice

Smarter. Greener. Together

www.delta-emea.com



Delta Electronics (Netherlands) B.V.,
Zandsteen 15 2132 MZ Hoofddorp, The Netherlands
Phone: +31 20 800 3900
www.delta-emea.com
Doc CTOS0X01.DS3-v8

www.eltek.com

