

Compact HE 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.



FLATPACK S 1U SYSTEMS

48V 19" 2R/3R

DOCUMENT NO: CTOS0X01.DS3

APPLICATIONS

Telecom - Mobile / Wireless

- Radio Base stations / Cell Sites
- LTE / 4G / WiMAX
- Distributed Antenna Systems
- Microwave
- Broadband

Fixed

- Telephony servers / switches
- Fiber Optics / FTTx
- Microwave
- Cable
- Broadband



KEY FEATURES

- Complete system with
 - Smartpack S controller
 - Rectifiers
 - Battery distribution
 - Load distribution
- 262 mm system depth
- 1U Height
- Hot plug-able rectifiers
- Hot plug-able controller
- Advanced control and monitoring through Ethernet port

2 rectifier positions system (50A)

- Load Distribution Options
 - 7 x 30A MCB drawer (optional LVLD)
 - 4 x 30A MCB front
 - 7 x 15A fuse front

3 rectifier positions system (100A)

- Load Distribution
 - 2 x 100A

See reverse side for specifications

Flatpack S 1U System

TECHNICAL SPECIFICATIONS

Model	1 Controller + 2 Rectifiers	1 Controller + 3 Rectifiers
Part number	CTOS0201.xxx	CTOS0301.xxx
INPUT DATA		
Voltage	100-277V _{AC}	100-277V _{AC}
Mains Configuration	230V _{AC} , 1 phase or 2 x 1phase	230V _{AC} , 1 phase or 3 phase(Δ) 230/400V _{AC} , 3 phase (Y)
Mains Connection	2,5mm ² Terminal blocks, rear connection	
Frequency	45 to 66Hz	
OUTPUT DATA		
Voltage	- 48Vdc	- 48Vdc
Max. Current	50A	100A
BATTERY DISTRIBUTION		
LVBD	Default	Default
Breaker (Plug-in type) maximum size	2 x 50A ¹⁾	2 x 100A ¹⁾
Rear connection	16mm ² Terminal blocks	M6 cable lug
LOAD DISTRIBUTION		
Rear connections	N/A	2 x 100A, M6 cable lug
Rear cabel entry, front access Connections, screw terminals Optional LVLD	7 x 30 A MCB ²⁾ 2 X 10mm ² + 5 X 4mm ² 50A	N/A
Front connections Plug-able screw terminals	4 x 30A MCB / 7 x 15A Fuse 4mm ²	N/A
CONTROL & MONITORING		
Smartpack S	6x Input/Output and Ethernet, See Smartpack S datasheet	
MECHANICAL DATA		
Dimensions (W/H/D)	19"/1U/262mm Recommended minimum cabinet depth, 300 mm	
Weight	tbd	tbd
DESIGN STANDARDS		
Electrical safety	UL 60950-1, EN 60950-1	
EMC	ETSI EN 300 386 V.1.4.1 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	

- 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