

## 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

1U x 19" 48V – 2R/3R

Doc CTOS0X01.DS3 – v3

### APPLICATIONS

#### TELECOM – MOBILE / WIRELESS

- RADIO BASE STATIONS/ CELL SITES
- LTE / 4G / WIMAX
- DISTRIBUTED ANTENNA SYSTEMS
- MICROWAVE
- BROADBAND

#### TELECOM – FIXED

- TELEPHONY SERVERS / SWITCHES
- FIBER OPTICS / FTTH
- MICROWAVE
- CABLE
- BROADBAND



SMARTPACK S CONTROLLER



FLATPACK S 48V 1800W RECTIFIER

### 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**
  - 7 X 20A MCB DRAWER (OPTIONAL LVLD)
  - 4 X 20A MCB FRONT
  - 7 X 15A FUSE FRONT
- **3R (100A) LOAD OPTIONS**
  - 2 X 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
<b>INPUT DATA</b>		
Voltage	100 - 250V <sub>AC</sub>	100 - 250V <sub>AC</sub>
Mains Configuration	230V <sub>AC</sub> , 1 phase or 2 x 1phase	230V <sub>AC</sub> , 3 x 1 phase or 3 phase(Δ) 230/400V <sub>AC</sub> , 3 phase (Y)
Mains Connection	2,5mm <sup>2</sup> Terminal blocks, rear connection	
Frequency	45 to 66Hz	
<b>OUTPUT DATA</b>		
Voltage	- 48Vdc	- 48Vdc
Max. Current	40A	100A
<b>BATTERY DISTRIBUTION</b>		
LVBD	Default	Default
Breaker (Plug-in type) maximum size	2 x 40A <sup>1)</sup>	2 x 80A <sup>1)</sup>
Connection (rear)	16mm <sup>2</sup> Terminal blocks	M6 cable lug
<b>LOAD DISTRIBUTION</b>		
Rear connections	N/A	2 x 80A, M6 cable lug
Rear cabel entry, front access Connections, screw terminals Optional LVLD	7 x 20A MCB <sup>2)</sup> 7 X 4mm <sup>2</sup> on MCB 1 and 2	N/A
Front connections Plug-able screw terminals	4 x 20A MCB / 7 x 15A Fuse 4mm <sup>2</sup>	N/A
<b>CONTROL &amp; MONITORING</b>		
Smartpack S	6x Input/Output and Ethernet. See Smartpack S datasheet	
<b>MECHANICAL DATA</b>		
Dimensions (W/H/D)	19"/1U/262mm Recommended minimum cabinet depth, 300 mm	
Weight, including controller and distributions, excluding rectifiers	5.3 kg [11.7 lbs]	5.2 kg [11.5 lbs]
<b>DESIGN STANDARDS</b>		
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		

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Specifications are subject to change without notice