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 – v6

APPLICATIONS

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

SMARTPACK S CONTROLLER

FLATPACK S 48V 1800W RECTIFIER

KEY FEATURES

- COMPLETE SYSTEM
  - 0 SMARTPACK S CONTROLLER
  - 0 RECTIFIERS
  - 0 BATTERY DISTRIBUTION
  - 0 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
  - 0 7 X 30A MCB DRAWER (OPTIONAL LVLD)
  - 0 4 X 30A MCB FRONT
  - 0 7 X 15A FUSE FRONT
- 3R (100A) LOAD OPTIONS
  - 0 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
INPUT DATA		
Voltage	100 - 250V_{AC}	100 - 250V_{AC}
Mains Configuration	230V_{AC}, 1 phase or 2 x 1phase	230V_{AC}, 3 x 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	40A	100A
BATTERY DISTRIBUTION		
LVBD	Default	Default
Breaker (Plug-in type) maximum size	2 x 40A[1)]	2 x 80A[1)]
Connection (rear)	16mm^2 Terminal blocks	M6 cable lug
LOAD DISTRIBUTION		
Rear connections	N/A	2 x 80A, M6 cable lug
Rear cabel entry, front access Connections, screw terminals Optional LVLD	7 x 30A MCB [2)] 7 X 4mm^2 on MCB 1 and 2	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, including controller and distributions, excluding rectifiers	5.3 kg [11.7 lbs]	5.2 kg [11.5 lbs]

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

Specifications are subject to change without notice

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