

## 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)<br>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<br>Connections, screw terminals<br>Optional LVLD  | 7 x 20A MCB <sup>2)</sup><br>7 X 4mm <sup>2</sup><br>on MCB 1 and 2   | N/A  |
| Front connections<br>Plug-able screw terminals   | 4 x 20A MCB / 7 x 15A Fuse<br>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<br>Recommended minimum cabinet depth, 300 mm   |  |
| Weight, including controller and distributions,<br>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<br>EN 61000-6-1 (immunity, light industry)<br>EN 61000-6-2 (immunity, industry)<br>EN 61000-6-3 (emission, light industry)<br>EN 61000-6-4 (emission, industry) |  |
| Environment  | ETSI EN 300 019-2-1 Class 1.2<br>ETSI EN 300 019-2-2 Class 2.3<br>ETSI EN 300 019-2-3 Class 3.2   |  |
| <p>1) If only one string is used, one of the battery breakers can be configured as a load breaker.<br/>2) Drawer solution, front access for actual connection, but cables enters from rear</p> |   |  |

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Specifications are subject to change without notice