

# Compact HE 2U power system

The Flatpack S 2U system is designed with customer flexibility in mind.

This small power dense system is purely based on pluggable breakers and rectifiers and can easily be configured to fit your required application, even in field. The combination of Flatpack S HE rectifier and Smartpack S controller ensures safe, reliable and environmental friendly operation. The shallow depth makes it suitable for most cabinets and excellent as a replacement unit. And as it is all based on the well proven Eltek technology, the Flatpack S family is the key for future needs.



## Flatpack S 2U (DC Power supply system 150A)

Doc MFGS0502. xxx.DS3 – rev3

### 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 48/1800 Rectifier

### KEY FEATURES

- COMPLETE SYSTEM
- SMARTPACK S CONTROLLER
- HIGH EFFICIENCY RECTIFIERS
- BATTERY DISTRIBUTION
- LOAD DISTRIBUTION
- 270 MM SYSTEM DEPTH
- 2U HEIGHT
- HOT PLUGGABLE RECTIFIERS
- HOT PLUGGABLE CONTROLLER
- ADVANCED CONTROL AND MONITORING THROUGH ETHERNET PORT
- 4 LARGE BREAKER POSITIONS FOR BATTERY AND LOAD
- 10 X 30A MCB DISTRIBUTION
- PUSH-IN FRONT CONNECTION
- LVBD
- LVLD (OPTIONAL)

# Flatpack S 2U

Doc MFGS0502.xxx.DS3 – rev3



MODEL	2BB + 2LB	2BB + 2LB LVLD	4BB
Part number (Configured Telecom Power system)	CTOS0502.nnnn	CTOS0502.nnnn	CTOS0502.nnnn

## INPUT DATA

Voltage (range)	85 to 305 V <sub>AC</sub> (45–66 Hz) / 85 to 250 V <sub>DC</sub>
Maximum current	21 A <sub>RMS</sub>
Mains configuration	3x single phase
Connection	Rear connection on Faston connectors (6.3 mm)

## OUTPUT DATA

Nominal voltage	-48 V <sub>DC</sub>
Maximum current CE	150 A <sub>DC</sub>
Maximum current UR (UL recognized)	100 A <sub>DC</sub>

## BATTERY DISTRIBUTION

LVBD	Default
Plug-in Breakers (max rating)	2x 80 A                      2x 80 A                      4x 80 A
Connection	Rear connection on M6 Studs, 25 mm <sup>2</sup> max

## LOAD DISTRIBUTION

LVLD (on Large Breakers)	n/a	Default	n/a
Plug-in Breakers Large (max rating)	2x 80 A	2x 80 A	n/a
Connection Large Breakers	Rear connection on M6 Studs, 25 mm <sup>2</sup> max		
Plug-in Breakers Small (max rating)	10 x 30 A <sup>1)</sup>		
Connection Small Plug-in Breakers	Front connection Push-in terminals, 6 mm <sup>2</sup> max		

## CONTROL & MONITORING

Smartpack S	6x Input / Output and Ethernet <sup>2)</sup>
-------------	--

## OTHER SPECIFICATIONS

Dimensions (W / H / D)	19" / 2U / 270 mm (incl. rear terminal cover) <sup>3)</sup>
Weight (w/o controller, rectifiers and breakers)	6.3 kg [13.88 lbs]
Mounting	19" Flush mount
Coding (prevents mixing of output voltages)	Coded for Flatpack S 48 V / 1000 W & 1800 W

## DESIGN STANDARDS

Electrical safety	UL60950-1 / EN60950-1
EMC	ETSI EN 300 386 v1.6.1 EN 61000-6-1 (immunity light industry) EN 61000-6-2 (immunity industry) EN 61000-6-3 + A1 (emission light industry) EN 61000-6-4 + A1 (emission industry)
Environment	ETS 300 019-2-1 Class 1.2 ETS 300 019-2-2 Class 2.3 ETS 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) Each breaker branch (5 x B-frame breakers) rated for maximum 80 A in total
- 2) See Smartpack S datasheet
- 3) 30mm space in front and in back of the system is required for proper air flow

Doc MFGS0502.xxx.DS3 – rev3

Specifications are subject to change without notice