

Flatpack2, 5U – 8U Integrated power system

DC Power supply system, 150 - 700A



Integrated power system

Versatile and powerful solution for any application

The combination of cost-effective design, power density and reliability makes the Flatpack2 a product family that truly stands out and provides unparalleled network availability. The versatility of the Flatpack2 rectifier means that it can be used in a wide variety of 48VDC and 24VDC applications across the globe.

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

Key features

- Complete System
- Smartpack R controller
- Advanced control and monitoring through ethernet port
- USB type A host for plug-in devices (e.g. wifi, flash drives)
- USB type B for control
- Super high efficiency rectifiers
- Hot pluggable modules
- 8x battery breaker positions
- LVBD
- 18x load MCB distribution
- PLD (optional)

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Model	24 VDC	48 VDC	48 VDC 36 KW
Part number (Configured Telecom power system)	CTO2xxx.nnnn	CTOxxxx.nnnn	CTO312x.nnnn

Power module			
Flatpack2 rectifier ¹⁾	Flatpack2 24/1800 HE	Flatpack2 48/2000 HE / SHE Flatpack2 48/3000 HE / SHE	Flatpack2 48/3000 HE / SHE

Input data			
Voltage (range) / frequency	85 - 300 V _{AC} / 45 - 66 Hz	85 - 300 V _{AC} (HE) / 45 - 66 Hz 85 - 264 V _{AC} (SHE) / 45 - 66 Hz	85 - 300 V _{AC} (HE) / 45 - 66 Hz 85 - 264 V _{AC} (SHE) / 45 - 66 Hz
AC mains input configuration	Individual ²⁾ / 1p230 V _{AC} TN / 3p400 V _{AC} TN / 1p230 V _{AC} IT / 3p230 V _{AC} IT		3p400 V _{AC} TN
Connection	Terminal blocks, 16 mm ² max		Terminal blocks, 35 mm ² max

Output data			
Voltage	+ 24 V _{DC}	- 48 V _{DC}	- 48 V _{DC}
Current (maximum)	600 A	600 A	700 A

Battery distribution			
Number of battery breaker pos.	6x 100 A	6x 100 A	8x 100 A
LVBD	Default 300 A / 600 A	Optional 150 A / 300 A / 500 A / 600 A	Default 800 A

Load distribution			
Number of load MCB positions	18x 18 mm or 9x 18 mm + 6x 27 mm		16x 18 mm or 4x 18 mm + 8x 27mm
PLD (optional)	300 A / 600 A	150 A / 300 A / 500 A / 600 A	
Load breaker type	DIN rail mounted, 18 mm and 27 mm wide (13 mm on request)		

Control and monitoring	
Control and monitoring unit ³⁾	Smartpack R
Inputs	6x digital inputs (for monitoring of external equipment)
Outputs	6x alarm relays

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Other specifications			
Isolation	3.0 kV _{AC} – input to output 1.5 kV _{AC} – input to earth 0.5 kV _{DC} – output to earth		
Operating temperature	-40 to +60 °C		
Storage temperature	-40 to +85 °C		
Dimensions (W x D x H) ⁴⁾	482 x 380 x H mm, height (H): 5U: 222 mm 6U: 267 mm	482 x 380 x H mm, height (H): 5U: 222 mm 6U: 267 mm 7U: 311 mm 8U: 356 mm	482 x 380 x 311 mm
Weight range (based on configuration, excluding modules)	14 – 24 kg	14 – 30 kg	23 – 33 kg

Design standards	
Electrical safety	EN IEC 62368-1:2020+A11:2020
EMC	ETSI EN 300 386 v2.2.1 EN 61000-6-1 /-2 /-3 ⁵⁾ /-4
Environment	ETSI EN 300 019-2-1 (Class 1.2) /-2 (Class 2.3) /-3 (Class 3.2) ETSI EN 300 132-2 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) See Flatpack2 rectifier datasheet for details

2) When system is configured without SPD device option

3) See Smartpack R controller datasheet for details

4) Recommended minimum indoor cabinet depth is 400 mm

5) Depends on system power output, not applicable for systems with ≥24kW power output.

Specifications are subject to change without notice

Smarter. Greener. Together

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