

Flatpack S 5.4kW 1U Powercore

PB-CTOS0301-0-006



FEATURES

- Hot-Swappable for Maximum Uptime - Designed for continuous operation, with hot-pluggable rectifiers and controllers, ensuring easy maintenance and expansion without downtime.
- Advanced Control & Monitoring - Integrated Smartpack S controller provides real-time system oversight, remote monitoring via Ethernet, and intelligent power management.
- Power performance - Supports configurations with 3 high-efficiency rectifiers, delivering 48V DC power with up to 100A output.
- Flexible Load Distribution - Multiple load breakers, supporting a wide range of telecom and network applications.
- Built to suit your needs - inverter options available on request.

SPECIFICATIONS

MODEL

Part Number	PB-CTOS0301-0-006
Height (RU)	1U
Module Slots (Not Supplied)	3 x Flatpack S HE Rectifier Modules
Compatible AC/DC Rectifiers ¹⁾	241122.105 Flatpack S AC/DC Rectifier 48/1000 HE
	241122.125 Flatpack S AC/DC Rectifier 48/1800 HE

AC INPUT DATA

Voltage (Vac)	100 - 250 Vac
Mains Configuration	3 x 230 Vac (3 x 1 or 3 phase)
Mains Connection	Terminal Block
Frequency (Hz)	45-66 Hz

48V BATTERY DATA

Plug in breakers	2 x 80A Circuit breakers
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48V LOAD DATA

Nominal System Voltage (Vdc)	-48 Vdc
Voltage Range (Vdc)	-42 Vdc - -58.6 Vdc
Plug in breakers	2 x 80A ²⁾
Max. Current (A)	100A

POWER DISTRIBUTION / CABLE

Connection	2 x 48Vdc Battery (M6 bolt)
	7 x -48Vdc bulk (M6 bolt)

RECTIFIER OPTION

Additional Height (U)	1U
Output (Vac)	230 Vac
Output (W/VA)	2400W / 3000VA

CONTROL & MONITORING

System Controller	Smartpack S ⁴⁾
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MECHANICAL

Dimensions (WxHxD)	TO BE MEASURED
Weight	TO BE MEASURED (Excluding all modules)

DESIGN STANDARDS

Electrical Safety	EN 60950-1:2006+A11:2009+A2:2013, IEC 60950-1:2013, UL 60950-1:2014
EMC	EN 61000-6-1:2019 / -2:2019 / -3:2007/ A1:2011/AC2012 / -4:2019
	FCC CFR47 part 15B section 109: 2010, ETSI EN 300 386 v2.1.1:2016
Environment	ETSI EN 300 019:2-1 (Class 1.2) & 2-2 (Class 2.3)
	EU 2015/863 (RoHS) & 2012/19/EU (WEEE)
	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

Notes:

- ¹⁾ All Modules per shelf must be of the same voltage/model.
- ²⁾ Other configurations available. Please consult with your Powerbox representative.
- ³⁾ At 24Vdc, maximum input current DC/DC converters is 100A from the 48Vdc bus.
- ⁴⁾ For detailed Specifications & Manuals, please refer to Smartpack S product page.

SELECTION TABLE

Part Number	PB-CTOS0301-0-006	PB-CTES0302D-0-0-007	PB-CTES0303S-0-0-008	PB-CTES0304M-0-0-009
System Power (W)	5400	5400	5400	5400
Maximum DC/DC Power (W)	-	2700	-	2700
Maximum Solar Power (W)	-	-	6400	6400

TECHNICAL DRAWINGS

