

Flatpack S 2kW 1U Powercore

PB-CTOS0201-2-001



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 2 high-efficiency rectifiers, delivering 48V DC power with up to 40A 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-CTOS0201-2-001
Height (RU)	1U
Module Slots	2 x Flatpack S HE Rectifier Modules
Compatible AC/DC Rectifiers (supplied) ¹⁾	241122.105 Flatpack S AC/DC Rectifier 48/1000 HE

AC INPUT DATA

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

48V BATTERY DATA

Plug in breakers	2 x 40A 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	7 x 30A ²⁾
Max. Current (A)	40A

POWER DISTRIBUTION / CABLE

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

RECTIFIER/TER OPTION

Additional Height (U)	1U
Output (Vac)	230 Vac
Output (W/VA)	1200W / 1500VA

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+A1:2010+A12:2011+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 ETSI EN 300 019: 2-1 (Class 1.2) & 2-2 (Class 2.3) EU 2015/863 (RoHS) & 2012/19/EU (WEEE)
Environment	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⁾ Maximum allowable input current to DC/DC converters is 40A from the 48Vdc bus without discharging the battery.
⁴⁾ For detailed Specifications & Manuals, please refer to Smartpack S product page.

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SELECTION TABLE

Part Number	PB-CTOS0201-2-001	PB-CTES0202D-2-0-014	PB-CTES0203S-2-0-015	PB-CTES0204M-2-0-0-016
System Power (W)	2000	2000	2000	2000
Maximum DC/DC Power (W)	-	2700	-	2700
Maximum Solar Power (W)	-	-	6400	6400

TECHNICAL DRAWINGS

