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Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One CPA250-4530 AC-DC Power Supply

The Bel Fuse/Power-One CPA250-4530 is a 250 W AC-DC power supply module engineered for CompactPCI systems. It delivers four regulated DC outputs from a universal AC input with active power factor correction compliant with EN 61000-3-2. The unit supports hot-swap operation and integrates ORing FETs for true n+1 redundant configurations. Built on patented EDGE™ technology, it combines high power density with comprehensive overtemperature, overvoltage, overcurrent, and overpower protection. Input protection: Transient suppressor (varistor), voltage suppressor diodes, active inrush current limiter Output Specifications

Aumictech offers NIST-traceable calibration and repair for the Bel Fuse / Power-One CPA250-4530. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Bel Fuse / Power-One CPA250

**MODEL****Bel Fuse / Power-One CPA250-4530****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****CPA250-4530****LISTING**<https://aumictechlabs.com/products/cpa250-4530-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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integrates ORing FETs for true n+1 redundant configurations. Built on patented EDGE™ technology, it combines high power density with comprehensive overtemperature, overvoltage, overcurrent, and overpower protection.

Technical Specifications

Input Specifications

Input voltage (AC): 90–264 VAC
Input frequency: 47–63 Hz
Input current: Up to 3.7 A typical
Active power factor correction per EN 61000-3-2
Input protection: Transient suppressor (varistor), voltage suppressor diodes, active inrush current limiter

Output Specifications

Output 1: 5 VDC, 40 A
Output 2: 3.3 VDC, 40 A
Output 3: 12 VDC, 5.5 A
Output 4: –12 VDC, 2 A
Total output power: 250 W
Hold-up time: Minimum 15 ms at V_{in} , I_{on} nom
Start-up time: Maximum 150 ms at V_{in} nom, I_{o} nom
Single-wire current share for three outputs

Physical & Thermal Dimensions: 6.4" × 1.6" × 6.4" (162.5 mm × 40.6 mm × 162.5 mm) for 8 HP width
Connector: 47-pin Positronic
Cooling: Forced-air cooling required
Enclosure: Aluminum case with integrated heat sink and RFI shielding

Key Features

Dual input capability: Universal AC or DC input
Hot-swap operation for live module replacement without system shutdown
Inhibit and enable control inputs with remote sense lines
Output overload, open-circuit, and short-circuit protection
Low inrush current limited by active circuitry
PICMG® CompactPCI® specification compliance
RoHS-compliant versions available (models ending in 'G')

Typical Applications

CompactPCI backplane systems requiring distributed power architectures, redundant power configurations, and hot-swappable supply modules.

Compatibility & Integration

Compliant with PICMG power interface specifications for CompactPCI systems. Integrates with 47-pin Positronic connectors and supports single-wire current sharing across three regulated outputs for scalable system designs.

CPA2504530 Characteristics / Specifications

PARAMETER	VALUE
Model	CPA250-4530
Series	CPA
Instrument Type	CompactPCI AC-DC converter
Case Size	3U x 8HP
Rated Power	250 W
Input Voltage Operating	90 to 264 Vac
Input Frequency	47 to 63 Hz
Nominal Input Voltage	230 Vac
Output 1 Voltage	5.0 V
Output 1 Current Nominal	25 A
Output 1 Current Maximum	40 A
Output 2 Voltage	3.3 V
Output 2 Current Nominal	20 A
Output 2 Current Maximum	40 A
Output 3 Voltage	12 V
Output 3 Current Nominal	4 A
Output 3 Current Maximum	5.5 A
Output 4 Voltage	-12 V
Output 4 Current Nominal	1 A
Output 4 Current Maximum	2 A
Efficiency Minimum	81.5 percent
Efficiency Typical	82.6 percent
Power Factor Typical	0.95 W/VA
Switching Frequency Typical	135 kHz
Peak Inrush Current	15 A class CPA200/250 table

PARAMETER	VALUE
No Load Input Power	23 to 30 W
Hold Up Brown Out Time Class	20 ms CPA table
Start Up Time	150 ms class
Output Vo1 Static Line Regulation	plus or minus 10 mV
Output Vo2 Static Line Regulation	plus or minus 10 mV
Overvoltage Shutdown Band	120 to 130 percent then permanent disable until input removed 60 s
Connector	47-pin Positronic class CompactPCI power connector
Operating Temperature Case Class	-40 to +50 C published series page
Isolation	full input to output isolation
Operating temperature	Case Class: -40 to +50 C published series page

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Case Class: -40 to +50 C published series page
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Operating Temperature Case Class	-40 to +50 C published series page
Isolation	full input to output isolation Notes From Bel Power Solutions CPA/CPD Series 200-550 W CompactPCI datasheet row CPA250-4530G / CPA250-4530. G suffix denotes RoHS lead-free-solder builds; non-G builds are lead-solder-exempt variants of the same electrical ratings.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Bel Power Solutions CPA/CPD Series 200-550 W CompactPCI datasheet row CPA250-4530G / CPA250-4530. G suffix denotes RoHS lead-free-solder builds; non-G builds are lead-solder-exempt variants of the same electrical ratings.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.