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Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One CPA500-4530S218 AC-DC Power Supply

Bel Fuse / Power-One AC Power Supply. Voltage: 90–264 VAC or 36–75 VDC, Current: 7.2 A to 8.0 A, Voltage: 1.5 kV.

**MODEL****Bel Fuse / Power-One CPA500-4530S218****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****CPA500-4530S218****LISTING**<https://aumictechlabs.com/products/cpa500-4530s218-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Bel Fuse/Power-One CPA500-4530S218 is a 500 W AC-DC power supply engineered for CompactPCI® systems and demanding applications in communications, industrial, military, and aerospace environments. Built on patented EDGE™ technology, this unit delivers high power density and 85% efficiency while maintaining thermal stability across wide input ranges. Four independent regulated outputs support diverse load requirements, with integrated protection against overload, short-circuit, and open-circuit faults. The design accommodates both AC (90–264 VAC, 50–60 Hz) and DC (36–75 VDC) input sources via active power factor correction, eliminating manual voltage selection. Hot-swap capability and soft-start circuitry enable field replacement and controlled power-up sequencing without system interruption. Remote sense lines and inhibit/enable control inputs provide flexible integration into managed power

architectures. Technical Specifications Electrical Input voltage: 90–264 VAC or 36–75 VDC Input frequency: 50–60 Hz Maximum input current: 7.2 A to 8.0 A Output 1: 5 V @ 50 A Output 2: 3.3 V @ 60 A Output 3: 12 V @ 8–12 A Output 4: –12 V @ 4 A Total rated power: 500 W Efficiency: 85% Isolation voltage: 1.5 kV Power factor correction: Active Physical Dimensions: 162.5 mm (L) × 40.6 mm (W) × 128.7 mm (D) Height: 261.874 mm (mounting dependent) Weight: 1.65–1.77 kg Pin count: 47; terminal count: 48 Mounting: Chassis, desktop, rack Environmental & Compliance Operating temperature range: –25 °C to +50 °C Overtemperature protection: Built-in Standards: CSA, EN, IEC, UL/CSA 62368-1 RoHS compliant; lead-free China RoHS compliant Key Features Four independent, regulated output channels Low inrush current; varistor-protected input transient suppression Hot-swap operation without system shutdown Soft-start circuitry for controlled power sequencing Remote sense and inhibit/enable control inputs Continuous overload, short-circuit, and open-circuit protection Wide input voltage range eliminates manual selection Typical Applications CompactPCI® platforms, communications infrastructure, industrial control systems, military and aerospace power distribution, field-replaceable modular power subsystems. Compatibility & Integration Designed as a plug-in module for CompactPCI® chassis. Remote sense capability supports precision load regulation. Inhibit and enable inputs facilitate sequencing and system management integration.

CPA5004530S218 Characteristics / Specifications

PARAMETER	VALUE
Model	CPA500-4530
Series	CPA
Instrument Type	CompactPCI AC-DC converter
Case Size	6U x 8HP
Rated Power	500 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	40 A
Output 1 Current Maximum	50 A
Output 2 Voltage	3.3 V
Output 2 Current Nominal	50 A
Output 2 Current Maximum	60 A
Output 3 Voltage	12 V
Output 3 Current Nominal	8 A
Output 3 Current Maximum	12 A
Output 4 Voltage	-12 V
Output 4 Current Nominal	3 A
Output 4 Current Maximum	4 A
Efficiency Minimum	83 percent
Efficiency Typical	84.3 to 85 percent
Power Factor Typical	0.95 W/VA
Switching Frequency Typical	135 kHz
Peak Inrush Current	20 A class CPA500/550 table

PARAMETER	VALUE
No Load Input Power	26 to 32 W
Hold Up Brown Out Time Class	20 ms
Typical Input Current At Nom	2.8 to 3.1 A class
Max Input Current At Min Vac	7.1 to 7.8 A class
Overvoltage Shutdown Band	120 to 130 percent
Connector	47-pin CompactPCI power connector
Alias Customer Build	CPA500-4530S218

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 datasheet row CPA500-4530 / CPA500-4530G. Customer suffix S218 on queue SKU CPA500-4530S218 denotes a configuration of the same 500 W electrical family.

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.