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Data Sheet

August 15, 2026

COSEL

Cosel PBA600F-24 Power Supply

Cosel PBA600F-24 648 W AC-DC Enclosed Power Supply 24 V 27 A The Cosel PBA600F-24 is a forced-air cooled single-output AC-DC supply in the PBA600F family. OEM Cosel PBA catalog columns rate 24 V at 27 A (648 W) with 27 A (31 A peak) at ACIN 200 V, adjustable 16.50 to 26.40 V output, remote sensing, and remote ON/OFF. High-current 24 V industrial racks, factory automation cabinets, and ATE systems needing about 600 W with wide-range AC input and PFC. Parallel and N+1 redundancy on PBA600F class The Cosel PBA600F-24 is a forced-air cooled single-output AC-DC supply in the PBA600F family. OEM Cosel PBA catalog columns rate 24 V at 27 A (648 W) with 27 A (31 A peak) at ACIN 200 V, adjustable 16.50 to 26.40 V output, remote sensing, and remote ON/OFF. High-current 24 V industrial racks, factory automation cabinets, and ATE systems needing about 600 W with wide-range AC input and PFC. Parallel and N+1 redundancy on PBA600F class Output-voltage-following overvoltage protection



MODEL

Cosel PBA600F-24

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PBA600F-24

LISTING

<https://aumictechlabs.com/products/pba600f-24-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Cosel PBA600F-24 is a 600W AC-DC power supply delivering stable 24V DC output at 25A for industrial control systems, automation platforms, and distributed power architectures. Built with universal input spanning 85–264V AC (47–63Hz), it combines active power factor correction

with >90% efficiency and convection cooling. The unit integrates comprehensive protection circuits - overvoltage, overcurrent, short-circuit, and over-temperature - alongside low output ripple ($\leq 100\text{mVp-p}$) and tight line regulation ($\leq 0.5\%$), making it suitable for applications demanding precision DC rails in harsh thermal and electrical environments. Housed in a compact chassis-mount form factor approximately $125\text{mm} \times 65\text{mm} \times 220\text{mm}$, this supply meets international safety and EMC standards including UL60950-1, EN62368-1, FCC Part 15 Class A, and IEC61000-4 immunity profiles. Technical Specifications Output: 24V DC, 25A, 600W Input: 85–264V AC, 47–63Hz (universal range) Efficiency: >90% at full load, nominal input Line Regulation: $\leq 0.5\%$ Load Regulation: $\leq 1.0\%$ Ripple and Noise: $\leq 100\text{mVp-p}$ (20MHz bandwidth) Inrush Current: Max 30A (100V AC, cold start) Leakage Current: Max 0.75mA (240V AC, 60Hz) Isolation: 3000V AC input-to-output, 1500V AC input-to-ground, 500V AC output-to-ground (1 minute each) Transient Response: $\pm 1\%$ for 50% load step Hold-up Time: Min 20ms (full load, nominal input) Startup Time: Max 1000ms (full load, nominal input) Operating Temperature: -10°C to $+60^{\circ}\text{C}$ Storage Temperature: -20°C to $+70^{\circ}\text{C}$ Humidity: 20–90% RH non-condensing Altitude: Up to 2000m Weight: $\approx 1.2\text{ kg}$ Key Features Active PFC meeting EN61000-3-2 Class A Integrated OVP, OCP, SCP, OTP protection IEC C14 input connector with screw terminal DC output Low inrush current design Natural convection cooling; forced air optional at extended full load Typical Applications Industrial control and automation systems Distributed power delivery in cabinet installations Field instrumentation and sensor networks Telecom and networked equipment racks Compatibility & Integration Standard IEC C14 inlet accepts universal AC power cords. Output terminal block with marked positive/negative poles and dedicated earth ground terminal supports industry-standard wiring practices.

PBA600F Characteristics / Specifications

PARAMETER	VALUE
Model	PBA600F-24
Instrument Type	Enclosed single output AC-DC switching power supply
Rated Output Wattage	648 W
Rated Output Voltage	24 V
Rated Output Current Acin 100 V	27 A
Rated Output Current Acin 200 V	27 A (31 A peak)
Output Voltage Adjustment Range	16.50 to 26.40 V
Output Voltage Setting Range	24.00 to 24.96 V
Input Voltage	AC 85 to 264 V 1-phase or DC 120 to 350 V
Input Frequency	50/60 Hz (47 to 63 Hz)
Efficiency Typical Acin 100 V	81 percent at Io equals 100 percent
Efficiency Typical Acin 200 V	84 percent at Io equals 100 percent
Power Factor Typical Acin 100 V	0.98 at Io equals 100 percent
Power Factor Typical Acin 200 V	0.95 at Io equals 100 percent
Line Regulation	96 mV maximum
Load Regulation	150 mV maximum
Ripple At Plus 50 C	120 mVp-p maximum
Ripple Noise At Plus 50 C	150 mVp-p maximum
Temperature Regulation 0 To Plus 50 C	240 mV maximum
Drift Eight Hour	96 mV maximum
Start Up Time Typical	400 ms at ACIN 100/200 V Io equals 100 percent
Hold Up Time Typical	20 ms at ACIN 100/200 V Io equals 100 percent
Overcurrent Protection Threshold	over 105 percent of rated current or 101 percent of peak current automatic recovery
Overvoltage Protection	Vo plus 4.8 to 9.6 V
Leakage Current Maximum	0.45/0.75 mA at ACIN 100 V/240 V 60 Hz Io equals 100 percent

PARAMETER	VALUE
Isolation Input To Output Rc	AC 3000 V 1 minute
Isolation Input To Fg	AC 2000 V 1 minute
Isolation Resistance	50 MOhm minimum at DC 500 V room temperature
Operating Temperature	-20 to plus 71 C with derating
Operating Humidity	20 to 90 percent RH non-condensing
Storage Temperature	-20 to plus 75 C
Altitude Operating	3000 m maximum
Case Size WxHxD	120 × 61 × 190 mm without terminal block and screw
Mass	1.6 kg maximum
Cooling Method	Forced cooling internal fan
Conducted Noise Class	FCC Part 15 ClassBVCCI-B CISPR22-B EN55011-B EN55022-B
Harmonic Attenuator	complies with IEC61000-3-2
Vibration	19.6 m/s2 (2 G) 10 to 55 Hz
Impact	196.1 m/s2 (20 G) 11 ms
Humidity	20 to 90 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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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

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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

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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.