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Data Sheet

August 15, 2026

COSEL

Cosel PBA600F-48

Cosel PBA600F-48 624 W AC-DC Enclosed Power Supply 48 V 13 A The Cosel PBA600F-48 is the 48 V member of the forced-air PBA600F enclosed AC-DC family. OEM Cosel PBA catalog columns rate 48 V at 13 A (624 W) from AC 85 to 264 V or DC 120 to 350 V, with 38.40 to 56.00 V adjustment range, remote sensing, and remote ON/OFF. 48 V industrial bus power, telecom-style chassis rails, and ATE racks needing a compact fan-cooled 600 W-class supply. Parallel and Nplus 1 redundancy on PBA600F class The Cosel PBA600F-48 is the 48 V member of the forced-air PBA600F enclosed AC-DC family. OEM Cosel PBA catalog columns rate 48 V at 13 A (624 W) from AC 85 to 264 V or DC 120 to 350 V, with 38.40 to 56.00 V adjustment range, remote sensing, and remote ON/OFF. 48 V industrial bus power, telecom-style chassis rails, and ATE racks needing a compact fan-cooled 600 W-class supply. Parallel and Nplus 1 redundancy on PBA600F class Wide output voltage adjustment on 48 V rail



MODEL

Cosel PBA600F-48

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PBA600F-48

LISTING

<https://aumictechlabs.com/products/pba600f-48-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Cosel PBA600F-48 is a 624W AC-DC enclosed power supply delivering 48V DC at 13A, engineered for industrial applications demanding stable, regulated DC power. This chassis-mount unit accepts universal AC input from 85V to 264V AC (1Φ, 47–63 Hz) or DC input from 120V to 350V DC, with built-in power factor correction and harmonic attenuation to IEC61000-3-2.

Efficiency reaches 81.0% to 83.0% across operating conditions. Technical Specifications Output: 48V DC, 13A, 624W rated Input: 85–264V AC (1Φ) or 120–350V DC; 50/60 Hz nominal (47–63 Hz range) Efficiency: 81.0% to 83.0% Adjustable Output Range: 38.40V to 56.00V via built-in potentiometer Protection: Overcurrent (>105% rated or >101% peak; auto-recovery with 5-second continuous shutdown threshold), overvoltage ($V_o + 4.8V$ to $V_o + 12.0V$ activation), inrush limiting (thyristor-based), thermal derating with fan-fail detection Power Factor Correction: Built-in Harmonic Attenuation: IEC61000-3-2 compliant Leakage Current: Low-leakage option available (Code G) Key Features Output voltage adjustment via integral potentiometer or external resistor/supply methods Thermal shutdown protection with automatic derating based on current and temperature Fan options: long-life (F1), reverse air exhaust (F3), low-speed (F4) Compact form factor: 61mm W × 120mm D × 190mm H; approximately 1.6 kg Convection or fan-cooled operation Typical Applications Industrial systems, telecommunications infrastructure, process automation, and other applications requiring stable 48V DC regulation with integrated protection and harmonic compliance. Compatibility & Integration Chassis-mount design for direct integration into cabinet and frame-based systems. Output voltage adjustment supports both local potentiometer control and remote sensing via external methods. Note: Product is scheduled for manufacturer discontinuation around October 2028.

PBA600F Characteristics / Specifications

PARAMETER	VALUE
Model	PBA600F-48
Instrument Type	Enclosed single output AC-DC switching power supply
Rated Output Wattage	624 W
Rated Output Voltage	48 V
Rated Output Current	13 A
Output Voltage Adjustment Range	38.40 to 56.00 V
Output Voltage Setting Range	48.00 to 49.92 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	83 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	192 mV maximum
Load Regulation	300 mV maximum
Ripple At Plus 50 C	150 mVp-p maximum
Ripple Noise At Plus 50 C	200 mVp-p maximum
Temperature Regulation 0 To Plus 50 C	480 mV maximum
Drift Eight Hour	192 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 automatic recovery
Overvoltage Protection	Vo plus 4.8 to 12.0 V
Leakage Current Maximum	0.45/0.75 mA at ACIN 100 V/240 V 60 Hz Io equals 100 percent
Isolation Input To Output Rc	AC 3000 V 1 minute

PARAMETER	VALUE
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/s ² (2 G) 10 to 55 Hz
Impact	196.1 m/s ² (20 G) 11 ms
Humidity	20 to 90 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to plus 75 C
Operating temperature	20 to plus 71 C with derating
Operating Temperature	20 to plus 71 C with derating
Humidity	20 to 90 percent RH non-condensing
Operating Humidity	20 to 90 percent RH non-condensing
Altitude Operating	3000 m maximum
Case Size WxHxD	120 × 61 × 190 mm without terminal block and screw
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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 Notes From Cosel PBA series catalog columns for PBA600F-48. Efficiency and regulation figures are the 48 V column values from the same PBA600F table as PBA600F-24.

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.