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Data Sheet

August 15, 2026

COSEL / ELCO

Cosel / Elco K50AU-5 Power Supply

The Cosel/Elco K50AU-5 is an AC-DC power supply module in the K50AU family providing regulated DC output for embedded and industrial electronics. OEM CoselKseries tables list universal AC input and single-output DC rails with overcurrent protection. Embedded system DC rails, industrial control power, and OEM equipment requiring Cosel K-series modules. Overcurrent and overvoltage protection class Compact PCB mount or chassis module class Operating Temperature Class: Cosel industrial ambient class Isolation Class: reinforced isolation input to output class Efficiency Class: high efficiency switchmode class Related Models: other K50AU voltage rails



MODEL

**Cosel / Elco
K50AU-5**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

K50AU-5

LISTING

<https://aumictechlabs.com/products/k50au-5-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Cosel/Elco K50AU-5 is a 50 W single-output AC-DC power supply delivering 5 VDC at 10 A for industrial and electronic applications. This compact K Series unit accepts dual input sources AC 85–132 V or DC 110–170 V at 47–440 Hz - making it suitable for global deployment and mixed-source environments. Built-in protection circuits including automatic-recovery overcurrent protection and galvanic isolation (AC 1500 V for 1 minute; DC 500 V at 50 MΩ minimum) safeguard connected equipment. UL Recognized and CSA Certified. Technical Specifications Output: 5 VDC, 10 A (50 W) Input: AC 85–132 V or DC 110–170 V; 47–440 Hz Efficiency: 67% typical (AC input 100

V, 100% load) Line Regulation: $\pm 1\%$ Load Regulation: $\pm 10\%$ Ripple and Noise: 100 mV maximum (AC input 85 V, 100% load) Start-up Time: 16 ms typical (AC input 85 V, 100% load) Hold-up Time: 50 ms maximum (AC input 85 V, 100% load) Inrush Current: 25 A typical Operating Temperature: 0 to +70 °C Storage Temperature: -20 to +75 °C Humidity: 30 to 90% RH (non-condensing) Vibration: 10–55 Hz, 1 G, 3 minute period; 30 minutes per axis (X, Y, Z) Impact: 10 G, 20 ms, once per axis (X, Y, Z) Weight: Approximately 300 g or less (without optional cover) Isolation: AC 1500 V (1 minute), DC 500 V (50 M Ω minimum) EMI/RFI: FCC-A compliant Certifications: UL Recognized; CSA Certified Key Features Overcurrent protection with automatic recovery above 105% rated current Dual input voltage acceptance (AC or DC) Wide input frequency range supports 47–440 Hz operation Terminal-type connectors for industrial mounting Optional protective cover available Compact industrial form factor Typical Applications Industrial control systems, test equipment, distributed power networks, and embedded systems requiring stable 5 V supplies across variable input conditions. Compatibility & Integration This unit does not support parallel or series operation with other power supplies.

K50AU Characteristics / Specifications

PARAMETER	VALUE
Model	K50AU-5
Instrument Type	AC-DC power supply
Output Voltage Nominal	5 V
Family Power Class	50 W class K50
Input Type	AC universal input class
Output Type	single DC output
Regulation Class	line and load regulated class
Ripple Noise Class	low ripple Cosel class
Protection	overcurrent overvoltage class
Cooling	convection class
Operating Temperature Class	Cosel industrial ambient class
Isolation Class	reinforced isolation input to output class
Efficiency Class	high efficiency switchmode class
Form Factor	CoselKseries module
Series Family	Cosel K50AU
Brand Lineage	Cosel Elco
Related Models	other K50AU voltage rails
Mounting	PCB or chassis per option
Safety Class	agency approved Cosel design class
Humidity Class	noncondensing
Storage Temperature Class	wide storage class
MTBF Class	Cosel calculated MTBF class
Remote Sense Class	available on someKoptions
Storage temperature	Class: wide storage class
Operating temperature	Class: Cosel industrial ambient class

PARAMETER	VALUE
Humidity	Class: noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: wide storage class
Operating temperature	Class: Cosel industrial ambient class
Operating Temperature	Class: Cosel industrial ambient class
Humidity	Class: noncondensing
Operating Temperature Class	Cosel industrial ambient class
Isolation Class	reinforced isolation input to output class
Efficiency Class	high efficiency switchmode class
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Mounting	PCB or chassis per option
Safety Class	agency approved Cosel design class
Humidity Class	noncondensing
Storage Temperature Class	wide storage class
MTBF Class	Cosel calculated MTBF class
Remote Sense Class	available on someOptions Notes Identity and family rows from Cosel/Elco K50AU-5 power supply catalog designations. Exact current rating efficiency and dimensions are on the K50AU-5 datasheet page for the installed build.

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	
Identity and family rows from Cosel/Elco K50AU-5 power supply catalog designations. Exact current rating efficiency and dimensions are on the K50AU-5 datasheet page for the installed build.	

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.