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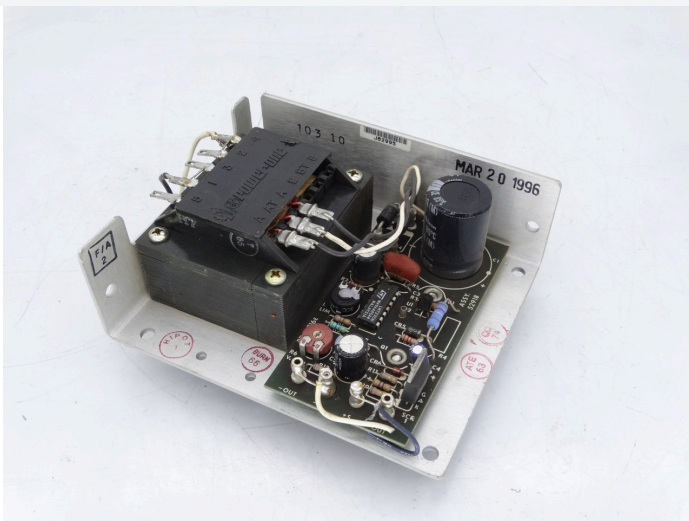
Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One HBB5-3/OVP-A Power Supply

The Bel Fuse/Power-One HBB5-3/OVP-A is a 15 W open-frame power supply delivering regulated 5 VDC at 3 A from universal 100-240 VAC, 50/60 Hz input. Integrated overvoltage protection (OVP) safeguards downstream electronics against voltage surges, while overcurrent, short-circuit, and thermal shutdown protection ensure reliable operation across industrial and embedded applications. Isolation: 3000 VAC input-to-output, 1500 VAC input-to-ground, 500 VAC output-to-ground Environmental Range High input-to-output isolation (3000 VAC minimum) for noise immunity and personnel safety Aumictech offers NIST-traceable calibration and repair for the Bel Fuse / Power-One HBB5-3/OVP-A. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt.



MODEL

Bel Fuse / Power-One HBB5-3/OVP-A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

HBB5-3/OVP-A

LISTING

<https://aumictechlabs.com/products/hbb5-3-o-vp-a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Bel Fuse/Power-One HBB5-3/OVP-A is a 15 W open-frame power supply delivering regulated 5 VDC at 3 A from universal 100-240 VAC, 50/60 Hz input. Integrated overvoltage protection

(OVP) safeguards downstream electronics against voltage surges, while overcurrent, short-circuit, and thermal shutdown protection ensure reliable operation across industrial and embedded applications. Technical Specifications Electrical Performance Output: 5 VDC @ 3 A (15 W) Input: 100-240 VAC, 50/60 Hz Efficiency: >80% at full load Isolation: 3000 VAC input-to-output, 1500 VAC input-to-ground, 500 VAC output-to-ground Environmental Range Operating: 0°C to 50°C ambient Storage: -40°C to 85°C Humidity: 5% to 95% non-condensing Cooling: Convection Physical Dimensions: 100 × 50 × 25 mm (L × W × H) Weight: ~150 g Enclosure: Open frame, chassis mount with screw terminals Key Features Active overvoltage protection (OVP) prevents transient damage Overcurrent protection (OCP) limits fault-condition stress Short-circuit protection (SCP) sustains continuous protection Over-temperature protection (OTP) triggers thermal shutdown High input-to-output isolation (3000 VAC minimum) for noise immunity and personnel safety Typical Applications Instrument power, embedded systems, laboratory equipment, and industrial control modules requiring compact, protected 5 V rails with international safety certification. Compatibility & Integration Input: IEC C14 AC connector. Output: Screw terminal block. UL/CSA, TÜV, CE, and FCC Part 15 Class B certified for North American and European deployment.

Features & description

From manufacturer datasheet

Built-in overvoltage protection on 5 V rails

Linear low-ripple regulation Worldwide AC input taps Case BB mechanical footprint Technical Specifications Model: HBB5-3/OVP-A Instrument Type: Dual output linear AC-DC power supply Output Voltage Positive: 5 V Output Voltage Negative: 5 V Rated Current Each Output: 3 A Case Type: BB Ac Input Voltage Taps: 100 120 220 240 Vac Ac Input 120 Vac Tap Range: 104 to 132 Vac Ac Input 240 Vac Tap Range: 209 to 264 Vac Input Frequency: 47 to 63 Hz Line Regulation Typical Models: plus or minus 0.05 percent Load Regulation Typical Models: plus or minus 0.05 percent Output Adjustment Range: plus or minus 5 percent of nominal Ripple And Noise 5 V Models: 5.0 mV p-p maximum 20 MHz Efficiency At 5 V: 45 percent typical class Overvoltage Protection Built In: 6.2 V plus or minus 0.4 V Dielectric Input To Case: 2121 Vdc Dielectric Input To Output: 4242 Vdc Leakage Current At 264 Vac: 23 to 50 uA Overcurrent Protection: automatic current limit foldback 115 to 140 percent Operating Temperature Full Load: 0 to 50 C Operating Temperature 40 Percent Load: to 70 C Derating Above 50 C: 3 percent perCStorage Temperature: -40 to plus 85 C Temperature Coefficient: 0.1 to 0.3 percent perCRelative Humidity: 5 to 95 percent RH non-condensing

HBB53OVPA Characteristics / Specifications

PARAMETER	VALUE
Model	HBB5-3/OVP-A
Instrument Type	Dual output linear AC-DC power supply
Output Voltage Positive	5 V
Output Voltage Negative	5 V
Rated Current Each Output	3 A
Case Type	BB
Ac Input Voltage Taps	100 120 220 240 Vac
Ac Input 120 Vac Tap Range	104 to 132 Vac
Ac Input 240 Vac Tap Range	209 to 264 Vac
Input Frequency	47 to 63 Hz
Line Regulation Typical Models	plus or minus 0.05 percent
Load Regulation Typical Models	plus or minus 0.05 percent
Output Adjustment Range	plus or minus 5 percent of nominal
Ripple And Noise 5 V Models	5.0 mV p-p maximum 20 MHz
Efficiency At 5 V	45 percent typical class
Overvoltage Protection Built In	6.2 V plus or minus 0.4 V
Dielectric Input To Case	2121 Vdc
Dielectric Input To Output	4242 Vdc
Leakage Current At 264 Vac	23 to 50 uA
Overcurrent Protection	automatic current limit foldback 115 to 140 percent
Operating Temperature Full Load	0 to 50 C
Operating Temperature 40 Percent Load	to 70 C
Derating Above 50 C	3 percent perCStorage Temperature: -40 to plus 85 C
Temperature Coefficient	0.1 to 0.3 percent perCRelative Humidity: 5 to 95 percent RH non-condensing
Shock Operating	20 G peak

PARAMETER	VALUE
Vibration	6.15 Grms 10 Hz to 2 kHz
Dimensions Inches	7.00 × 4.87 × 2.95
Dimensions Mm	177.80 × 123.70 × 74.93
Mtbf Class	greater than 300000 hours
Additional Feature Code	A built-in OVP
Storage temperature	40 to plus 85 C
Operating temperature	Full Load: 0 to 50 C
Humidity	5 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	Full Load: 0 to 50 C
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Humidity	5 to 95 percent RH non-condensing
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Dimensions Inches	7.00 × 4.87 × 2.95
Dimensions Mm	177.80 × 123.70 × 74.93
Mtbf Class	greater than 300000 hours
Additional Feature Code	A built-in OVP Notes From Bel Power Solutions Linear Power Supplies catalog dual-output rating row HBB5-3/OVP-AG and common electrical tables. Queue SKU HBB5-3/OVP-A matches the AG/A OVP family naming.

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

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Generated August 15, 2026

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