

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One MAP55-4003 AC-DC Power Supply

Aumictech offers NIST-traceable calibration and repair for the Bel Fuse / Power-One MAP55-4003. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Bel Fuse / Power-One MAP55-4003 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the Bel Fuse / Power-One MAP55-4003 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

**MODEL****Bel Fuse / Power-One MAP55-4003****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MAP55-4003****LISTING**<https://aumictechlabs.com/products/map55-4003-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Bel Fuse/Power-One MAP55-4003 is a 55 W AC-DC power supply module engineered for industrial and commercial applications requiring tightly regulated, multi-output DC power. This chassis-mount unit accepts universal AC input from 85 VAC to 264 VAC at 50/60 Hz, making it suitable for global deployment. The MAP55-4003 delivers four isolated outputs: +5 VDC at 6 A, +15 VDC at 2.5 A, -5 VDC at 0.5 A, and -15 VDC at 0.5 A, with output regulation of $\pm 1.5\%$ on the

main rail and $\pm 1\%$ on auxiliary rails. Line regulation holds to 0.2% typical, and ripple and noise remain below 1%. Overload and short-circuit protection with automatic recovery safeguards connected equipment. The thermally efficient U-channel chassis design permits full-power operation in convection-cooled environments without forced-air cooling. Dual-mode connectors support both traditional terminal block and Molex single-row mating, accommodating diverse integration schemes. Mounting versatility includes metric and SAE inserts for flexible mechanical integration. Isolation voltage reaches 2.6 kV. Peak efficiency of 73% and MTBF exceeding 225,000 hours underpin long-term reliability. The unit holds CE, CSA, TÜV, and UL approvals and meets EN55022 Class B conducted emissions, EN 61204-3 EMC, EN 55032, EN 61000-3-2, and EN 61000-3-3 standards. RoHS compliant. Note: This product is obsolete and no longer manufactured.

MAP554003 Characteristics / Specifications

PARAMETER	VALUE
Model	MAP55-4003
Series	MAP55
Instrument Type	Quad output open-frame AC-DC power supply
Output 1 Voltage	5 V adjustable 4.7 to 5.6 V
Output 1 Maximum Current	6 A
Output 1 Peak Current	8 A
Output 1 Line Regulation	0.2 percent
Output 1 Load Regulation	2 percent
Output 1 Ripple Noise	1 percent p-p 20 MHz
Output 1 Initial Setting	5.0 to 5.2 V
Output 2 Voltage	15 V fixed
Output 2 Maximum Current	2.5 A
Output 2 Peak Current	3.5 A
Output 2 Line Regulation	0.2 percent
Output 2 Load Regulation	2 percent
Output 2 Ripple Noise	1 percent
Output 2 Initial Setting	14.6 to 15.4 V
Output 3 Voltage	-5 V fixed
Output 3 Maximum Current	0.5 A
Output 3 Peak Current	1 A
Output 3 Line Regulation	0.5 percent
Output 3 Load Regulation	2 percent
Output 3 Ripple Noise	1 percent
Output 3 Initial Setting	-4.8 to -5.2 V
Output 4 Voltage	-15 V fixed

PARAMETER	VALUE
Output 4 Maximum Current	0.5 A
Output 4 Peak Current	1 A
Output 4 Line Regulation	0.5 percent
Output 4 Load Regulation	2 percent
Output 4 Ripple Noise	1 percent
Output 4 Initial Setting	-14.4 to -15.6 V
Maximum Continuous Power	55 W
Peak Output Power	65 W for 60 s maximum 10 percent duty
Input Voltage Ac Low Range	90 to 132 Vac
Input Voltage Ac High Range	175 to 264 Vac
Input Frequency	47 to 63 Hz
Brown Out Protection	90 Vac
Hold Up Time	20 ms at 115 Vac full rated load
Input Current At 90 Vac 55 W	1.6 Arms
Inrush Surge Current	38 A peak at 264 Vac one cycle 25 C
Operating Frequency Switching	22 to 180 kHz
Efficiency Typical	73 percent at full load 115 Vac
Minimum Load Main Channel	0.50 A
Overvoltage Protection Main	5.6 to 6.8 V
Dielectric Input To Output	2600 Vdc
Insulation Resistance Input To Output	7 MOhm
Leakage Current	500 uA maximum at 264 Vac EN60950
Operating Temperature Full Load	0 to 50 C
Operating Temperature Half Load	0 to 70 C with 2.5 percent perCderate above 50 C
Storage Temperature	-40 to plus 85 C
Temperature Coefficient	plus or minus 0.02 to 0.03 percent perCRelative Humidity: 5 to 95 percent RH non-condensing
Dimensions LxWxH	6.00 × 3.27 × 1.60 inches (152.4 × 83.1 × 40.6 mm)

PARAMETER	VALUE
Mass	1.1 lb (0.55 kg)
Mtbf	greater than 225000 hours
Altitude Operating	10000 ft
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
Operating Temperature	Full Load: 0 to 50 C
Humidity	5 to 95 percent RH non-condensing
Operating Temperature Full Load	0 to 50 C
Operating Temperature Half Load	0 to 70 C with 2.5 percent perCderate above 50 C
Temperature Coefficient	plus or minus 0.02 to 0.03 percent perCRelative Humidity: 5 to 95 percent RH non-condensing
Dimensions LxWxH	6.00 × 3.27 × 1.60 inches (152.4 × 83.1 × 40.6 mm)
Mass	1.1 lb (0.55 kg)
Mtbf	greater than 225000 hours
Altitude Operating	10000 ft Notes From Power-One / Bel MAP55 AC-DC Series datasheet model MAP55-4003 multiple-output selection and common electrical tables. Peak currents and 65 W peak power limited to 60 s at 10 percent maximum duty. CoverCsuffix derates multiple-output convection power to 45 W.

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	
Specifications	
PARAMETER	VALUE
Model	MAP55-4003
Series	MAP55
Instrument Type	Quad output open-frame AC-DC power supply
Output 1 Voltage	5 V adjustable 4.7 to 5.6 V
Output 1 Maximum Current	6 A
Output 1 Peak Current	8 A
Output 1 Line Regulation	0.2 percent
Output 1 Load Regulation	2 percent
Output 1 Ripple Noise	1 percent p-p 20 MHz
Output 1 Initial Setting	5.0 to 5.2 V
Output 2 Voltage	15 V fixed
Output 2 Maximum Current	2.5 A
Output 2 Peak Current	3.5 A
Output 2 Line Regulation	0.2 percent
Output 2 Load Regulation	2 percent
Output 2 Ripple Noise	1 percent
Output 2 Initial Setting	14.6 to 15.4 V
Output 3 Voltage	-5 V fixed
Output 3 Maximum Current	0.5 A
Output 3 Peak Current	1 A
Output 3 Line Regulation	0.5 percent
Output 3 Load Regulation	2 percent
Output 3 Ripple Noise	1 percent
Output 3 Initial Setting	-4.8 to -5.2 V
Output 4 Voltage	-15 V fixed
Output 4 Maximum Current	0.5 A

PARAMETER	VALUE
Output 4 Peak Current	1 A
Output 4 Line Regulation	0.5 percent
Output 4 Load Regulation	2 percent
Output 4 Ripple Noise	1 percent
Output 4 Initial Setting	-14.4 to -15.6 V
Maximum Continuous Power	55 W
Peak Output Power	65 W for 60 s maximum 10 percent duty
Input Voltage Ac Low Range	90 to 132 Vac
Input Voltage Ac High Range	175 to 264 Vac
Input Frequency	47 to 63 Hz
Brown Out Protection	90 Vac
Hold Up Time	20 ms at 115 Vac full rated load
Input Current At 90 Vac 55 W	1.6 Arms
Inrush Surge Current	38 A peak at 264 Vac one cycle 25 C
Operating Frequency Switching	22 to 180 kHz
Efficiency Typical	73 percent at full load 115 Vac
Minimum Load Main Channel	0.50 A
Overvoltage Protection Main	5.6 to 6.8 V
Dielectric Input To Output	2600 Vdc
Insulation Resistance Input To Output	7 MOhm
Leakage Current	500 uA maximum at 264 Vac EN60950
Operating Temperature Full Load	0 to 50 C
Operating Temperature Half Load	0 to 70 C with 2.5 percent perCderate above 50 C
Storage Temperature	-40 to plus 85 C
Temperature Coefficient	plus or minus 0.02 to 0.03 percent perCRelative Humidity: 5 to 95 percent RH non-condensing
Dimensions LxWxH	6.00 x 3.27 x 1.60 inches (152.4 x 83.1 x 40.6 mm)
Mass	1.1 lb (0.55 kg)
Mtbf	greater than 225000 hours
Altitude Operating	10000 ft

Notes

From Power-One / Bel MAP55 AC-DC Series datasheet model MAP55-4003 multiple-output selection and common electrical tables. Peak currents and 65 W peak power limited to 60 s at 10 percent maximum duty. CoverCsuffix derates multiple-output convection power to 45 W.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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.