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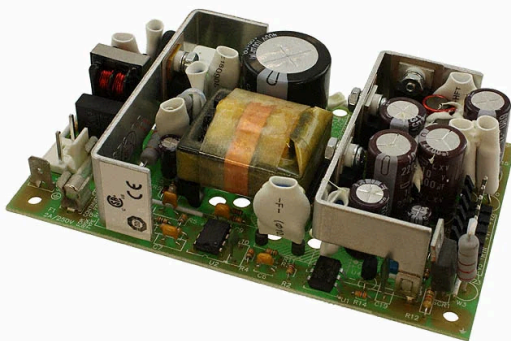
Data Sheet

August 15, 2026

BEL FUSE / POWER-ONE

Bel Fuse / Power-One MAP40-3003 AC-DC Power Supply

The Bel Fuse/Power-One MAP40-3003 is a 40 W AC-DC open-frame switching power supply engineered for commercial and industrial applications requiring multi-rail output capability. This three-output converter accepts universal input from 90–264 VAC at 47–63 Hz and delivers regulated +5 VDC, +15 VDC, and –15 VDC rails simultaneously from a compact 127.0 × 76.2 × 31.8 mm chassis-mount package. The unit achieves 70% efficiency with exceptional line regulation of ±0.2% typical and output ripple limited to 1% peak-to-peak across a 20 MHz bandwidth. Output Configuration: Three independent rails - 5 VDC @ 3 A, +15 VDC @ 1.5 A, –15 VDC @ 0.2 A Voltage Regulation: ±0.2% line regulation; ±1% initial setting accuracy; temperature coefficient ±0.02%/°C Operating Temperature: 0–70°C with derating; convection cooling standard to 50°C ambient

**MODEL****Bel Fuse / Power-One MAP40-3003****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MAP40-3003****LISTING**<https://aumictechlabs.com/products/map40-3003-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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regulated +5 VDC, +15 VDC, and -15 VDC rails simultaneously from a compact 127.0 × 76.2 × 31.8 mm chassis-mount package. The unit achieves 70% efficiency with exceptional line regulation of ±0.2% typical and output ripple limited to 1% peak-to-peak across a 20 MHz bandwidth.

Technical Specifications Output Configuration: Three independent rails - 5 VDC @ 3 A, +15 VDC @ 1.5 A, -15 VDC @ 0.2 A Input Specifications: 90-264 VAC, 47-63 Hz, 1.2 A RMS @ 90 VAC

Voltage Regulation: ±0.2% line regulation; ±1% initial setting accuracy; temperature coefficient ±0.02%/°C Isolation Voltage: 2.6 kV Output Voltage Adjustment: +5V (4.7-5.8V range), +15V (11-

18V range) Efficiency: 70% typical MTBF: Greater than 311,000 hours Operating Temperature: 0-70°C with derating; convection cooling standard to 50°C ambient Key Features Universal 90-264 VAC input eliminates regional power supply variants Open-frame design facilitates direct board

integration Industry-standard 3 × 5 inch footprint Single-row Molex connectors for input and output Remote sense capability for enhanced load regulation on specified rails Fixed-frequency

switching topology Compliance & Certifications UL Listed, CSA Certified, TUV Approved EN60950-1 / IEC60950-1 safety compliance EN55022 conducted and radiated EMI limits

EN61000-4-2/-3/-4 transient and ESD immunity RoHS3 compliant CE marked Typical Applications

Industrial control systems, telecommunications equipment, medical instrumentation, and

embedded systems requiring multi-voltage rails from a single compact power source.

MAP403003 Characteristics / Specifications

PARAMETER	VALUE
Model	MAP40-3003
Series	MAP40
Instrument Type	Triple output open-frame AC-DC power supply
Output 1 Voltage	5 V
Output 1 Adjustment Range	4.7 to 5.8 V
Output 1 Maximum Current	3 A
Output 1 Peak Current	5 A
Output 1 Line Regulation	0.2 percent
Output 1 Load Regulation	2 percent
Output 1 Ripple Noise	1 percent of output voltage p-p 20 MHz
Output 1 Initial Setting	4.9 to 5.1 V
Output 2 Voltage	15 V fixed
Output 2 Maximum Current	1.5 A
Output 2 Peak Current	3 A
Output 2 Line Regulation	1 percent
Output 2 Load Regulation	3.5 percent quasi regulated
Output 2 Ripple Noise	1 percent
Output 2 Initial Setting	14.7 to 15.3 V
Output 3 Voltage	-15 V fixed
Output 3 Maximum Current	0.2 A
Output 3 Peak Current	0.5 A
Output 3 Line Regulation	1 percent
Output 3 Load Regulation	2 percent
Output 3 Ripple Noise	1 percent
Output 3 Initial Setting	-14.3 to -15.7 V

PARAMETER	VALUE
Maximum Output Power	40 W
Input Voltage Ac	90 to 264 Vac continuous
Input Frequency	47 to 63 Hz
Brown Out Protection	85 Vac
Hold Up Time	15 ms at 115 Vac full rated load
Input Current At 90 Vac 40 W	1.2 Arms
Inrush Surge Current	38 A peak at 264 Vac one cycle 25 C
Operating Frequency	23 to 30 kHz fixed typical 25 kHz
Efficiency Typical	70 percent at full load 120 Vac
Overvoltage Protection Main	5.8 to 6.8 V
Overload Protection	130 percent automatic recovery
Dielectric Input To Chassis	2121 Vdc
Dielectric Input To Output	4242 Vdc
Insulation Resistance Input To Output	7 MOhm minimum
Touch Current Map40 30	750 uA maximum at 264 Vac
Operating Temperature	0 to 50 C at 100 percent load to 70 C with 2.5 percent perCderate
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	5.00 × 3.00 × 1.16 inches (127.0 x 76.2 × 29.5 mm)
Mass	0.26 kg (0.6 lb)
Altitude Operating	10000 ft
Humidity	5 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
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Altitude Operating	10000 ft Notes From Bel Power Solutions MAP30/40/42 series datasheet model MAP40-3003G electrical tables. Peak currents for 30 s or less at 10 percent maximum duty. Models withoutGsufffix are leaded and not recommended for new designs per OEM note.

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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Output 1 Ripple Noise	1 percent of output voltage p-p 20 MHz
Output 1 Initial Setting	4.9 to 5.1 V
Output 2 Voltage	15 V fixed
Output 2 Maximum Current	1.5 A
Output 2 Peak Current	3 A
Output 2 Line Regulation	1 percent
Output 2 Load Regulation	3.5 percent quasi regulated
Output 2 Ripple Noise	1 percent
Output 2 Initial Setting	14.7 to 15.3 V
Output 3 Voltage	-15 V fixed
Output 3 Maximum Current	0.2 A
Output 3 Peak Current	0.5 A
Output 3 Line Regulation	1 percent
Output 3 Load Regulation	2 percent
Output 3 Ripple Noise	1 percent
Output 3 Initial Setting	-14.3 to -15.7 V
Maximum Output Power	40 W

PARAMETER	VALUE
Input Voltage Ac	90 to 264 Vac continuous
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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.