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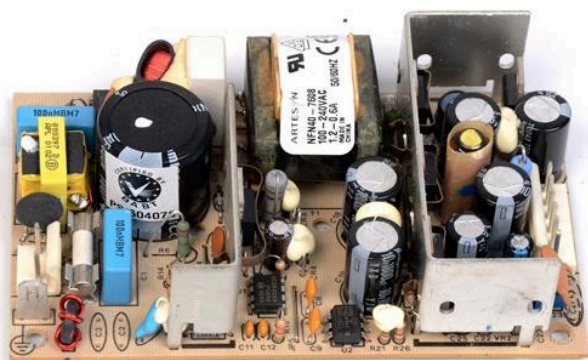
Data Sheet

August 15, 2026

ADVANCED ENERGY / ARTESYN

Advanced Energy / Artesyn NFN40-7608 Power Supply Board

Advanced Energy / Artesyn Power Supply Modules. Frequency Range: 47 to 63 Hz, Voltage / Current Range: -12.0V @ 0.35A, +12.0V @ 2A, 120-370 VDC; Output: +5.1V @ 3A, Input: 85-264 VAC.



MODEL

**Advanced Energy /
Artesyn NFN40-
7608**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NFN40-7608

LISTING

<https://aumictechlabs.com/products/nfn40-7608-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advanced Energy/Artesyn NFN40-7608 is a 40-watt open-frame AC-DC power supply board engineered for integration into distributed electronic systems. Operating across universal input voltage (85–264 VAC, 120–370 VDC) at 47–63 Hz, it eliminates regional supply constraints for global deployment. This triple-output converter delivers +5.1V, +12.0V, and -12.0V rails with load regulation down to zero load, meeting EN55022 Class B and FCC Part 15 Class B emissions standards. Fixed-frequency operation minimizes conducted noise, while overvoltage and short-circuit protection safeguard downstream circuitry. Technical Specifications Power & Thermal 40W output (convection cooled); 50W with 20 CFM forced air Efficiency: 70% Operating altitude: 10,000 feet maximum; 40,000 feet non-operating Humidity: 5–80% RH non-condensing Output

Configuration Output 1: +5.1V, 3A continuous / 7A peak, $\pm 50\text{mV}$ ripple, $\pm 2.0\%$ load regulation
Output 2: +12.0V, 2A continuous / 3A peak, $\pm 120\text{mV}$ ripple, $\pm 5.0\%$ load regulation Output 3:
-12.0V, 0.35A continuous / 1A peak, $\pm 120\text{mV}$ ripple, $\pm 5.0\%$ load regulation Line regulation (main):
 $\pm 0.2\%$; (auxiliary): $\pm 1.0\%$ Transient response (+5V, 1.5A–3A step): $\pm 120\text{mV}$ max, 500 μs recovery
Temperature coefficient: $\pm 0.02\%/^{\circ}\text{C}$ across all outputs Input Characteristics Input frequency: 47–
63 Hz Surge current (cold start): 12A max @ 132 VAC; 24A max @ 264 VAC Isolation voltage: 3
kVAC Protection & Compliance OVP (+5V): 125% $\pm 15\%$ Vout Short-circuit: Single outputs
indefinite; multiple outputs short-term Certifications: BABT, UL, CSA, EN60950, IEC950, ITEKey
Features Triple regulated output with independent overvoltage protection Fixed-frequency
operation for predictable EMI characteristics Regulation maintained at zero load across all rails
Compact dimensions: 5.00" $\times$ 3.00" $\times$ 1.20" Typical Applications 1U rackmount systems, industrial
controllers, medical instrumentation, telecommunications equipment requiring multi-rail DC
distribution. Compatibility & Integration Designed for direct PCB integration with universal mains
input simplifying worldwide system deployment. Meets UL 60950, CSA, and IEC 950 safety
standards.

NFN407608 Characteristics / Specifications

PARAMETER	VALUE
Model	NFN40-7608
Instrument Type	Triple-output open-frame AC/DC power supply
Family	Artesyn NFS40 / NFN40
OutputAVoltage	5.1 V
OutputAConvection	3 A
OutputAPeak	7 A
OutputAFan	5 A
OutputARipple	50 mV
OutputAREgulation	plus or minus 2.0 percent
OutputBVoltage	12 V
OutputBConvection	2 A
OutputBPeak	3 A
OutputBFan	2 A
OutputBRipple	120 mV
OutputCVoltage	minus 12 V
OutputCConvection	0.35 A
OutputCPeak	1 A
OutputCFan	0.5 A
Input Voltage Range	85 to 264 VAC or 120 to 370 VDC
Hold Up 110 Vac	14 ms at 40 W
Hold Up 230 Vac	110 ms at 40 W
Efficiency Typical	70 percent
Switching Frequency	fixed 45 kHz plus or minus 5 kHz (NFN)
Isolation Input Output	3000 VAC
Mass	280 g (9.88 oz)

PARAMETER	VALUE
Dimensions	5.00 × 3.00 × 1.2 inch
Maximum Power Convection	40 W
Maximum Power Forced Air	50 W at 20 CFM
Manufacturer	Artesyn / Emerson / Advanced Energy

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
From Artesyn NFS40 and NFN40 series datasheet NFN40-7608 row (same currents as NFS40-7608) plus family hold-up, efficiency, isolation, 45 kHz NFN, and 280 g mechanical tables. J suffix denotes RoHS Pb-free on later builds.

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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30-day returns
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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.