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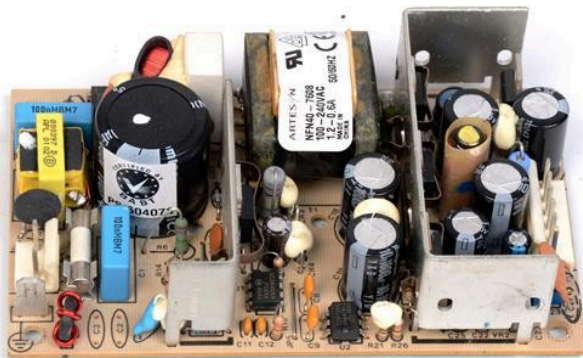
Data Sheet

August 15, 2026

ADVANCED ENERGY / ARTESYN

Advanced Energy / Artesyn NFS40-7608 Power Supply Board

The Advanced Energy / Artesyn NFS40-7608 is a power supply board designed for various electronic applications. It provides reliable and efficient power conversion, ensuring stable operation of connected devices. This board features solid construction and advanced circuitry for optimal performance.

**MODEL****Advanced Energy /
Artesyn NFS40-
7608****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****NFS40-7608****LISTING**[https://aumictechlabs.c
om/products/nfs40-76
08-2/](https://aumictechlabs.com/products/nfs40-7608-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advanced Energy/Artesyn NFS40-7608 is a 40W open-frame AC-DC power supply board engineered for industrial, communications, networking, and computer peripheral applications. This compact unit delivers three regulated output voltages - +5.1V, +12V, and -12V - from a universal input range of 85 VAC to 264 VAC or 120 to 370 VDC. Measuring just 5.00" × 3.00" × 1.20" with a 0.26 lbs footprint, it fits 1U form-factor requirements while maintaining convection or forced-air cooling flexibility. Technical Specifications Input: Voltage: 85 to 264 VAC, 120 to 370 VDC Frequency: 47 to 63 Hz (AC), 47 to 440 Hz (DC) Surge Current: 12A max @ 132 VAC cold start; 24A max @ 264 VAC cold start Input Power Limit: 110W max Output: +5.1V @ 3A

(convection), 7A (peak) +12V @ 2A (convection), 3A (peak) -12V @ 350mA (convection), 1A (peak)
Total Power: 40W convection; 50W with 20 CFM forced air Line Regulation: $\pm 0.2\%$ (+5.1V), $\pm 1.0\%$ ($\pm 12V$) Load Regulation: $\pm 2.0\%$ (+5.1V), $\pm 5.0\%$ ($\pm 12V$) Ripple & Noise: 50mV peak-to-peak (50MHz bandwidth) Efficiency: 72% typical Hold-up Time: 14ms @ 110VAC, 110ms @ 230VAC
OVP: +5V @ 125% $\pm 15\%$ Vout Isolation: 3 kVAC Output Adjustment: $\pm 5.0\%$ for +5V Protection: Indefinite short-circuit protection (single outputs); short-term protection (multiple outputs). Minimum load of 0.5A on +5V required for full negative output current; 4W minimum load recommended for rated MTBF.

Key Features Compact 5×3 inch footprint; maximum height 1.2 inches Multiple regulatory approvals: ITE, BABT, VDE, UL, CSA, EN60950, IEC950 Molex connector interface (09-50-3031 with 08-50-0105 crimp terminals) Low ripple output: 50mV p-p across 50MHz bandwidth

Typical Applications Industrial control systems Telecommunications and networking equipment Computer peripherals and embedded systems 1U rack-mount assemblies

Compatibility & Integration The NFS40 series integrates with standard Molex interconnects. Universal AC/DC input accommodates global voltage standards. Three isolated output rails support diverse subsystem power requirements in space-constrained environments.

NFS407608 Characteristics / Specifications

PARAMETER	VALUE
Model	NFS40-7608
Series	NFS40
Instrument Type	Triple output AC-DC switching power supply
OutputAVoltage	5.1 V
OutputAMaximum Convection	3 A
OutputAPeak	7 A
OutputAForced Air	5 A
OutputARipple	50 mV
OutputATotal Regulation	plus or minus 2.0 percent
OutputBVoltage	12 V
OutputBMaximum Convection	2 A
OutputBPeak	3 A
OutputBForced Air	2 A
OutputBRipple	120 mV
OutputBTotal Regulation	plus or minus 5.0 percent
OutputCVoltage	-12 V
OutputCMaximum Convection	0.35 A
OutputCPeak	1 A
OutputCForced Air	0.5 A
OutputCRipple	120 mV
OutputCTotal Regulation	plus or minus 5.0 percent
Input Voltage Range	85 to 264 Vac or 120 to 370 Vdc
Input Frequency	47 to 440 Hz
Inrush Current 132 Vac Cold Start	12 A maximum
Inrush Current 264 Vac Cold Start	24 A maximum

PARAMETER	VALUE
Safety Ground Leakage 110 Vac 60 Hz	0.13 mA maximum
Safety Ground Leakage 230 Vac 50 Hz	0.32 mA maximum
Efficiency Typical	70 percent
Hold Up Time 110 Vac 40 W	14 ms
Hold Up Time 230 Vac 40 W	110 ms
Isolation Input To Output	3000 Vac
Isolation Input To Chassis	1500 Vac
Maximum Power Convection	40 W
Maximum Power Forced Air	50 W at 20 CFM
Peak Total Power	60 W lasting less than 60 s
Line Regulation Main	plus or minus 0.2 percent
Load Regulation Main	plus or minus 2.0 percent
Temperature Coefficient	plus or minus 0.02 percent perCOperating Temperature: 0 to plus 70 C with derating
Storage Temperature	-40 to plus 85 C
Humidity	5 to 80 percent RH non-condensing
Altitude Operating	10000 feet maximum
Mass	280 g
Mtbf Demonstrated Mil Hdbk 217E	170000 hours
Dimensions	5.00 × 3.00 × 1.2 inches (127 × 76.2 × 30.5 mm class)
Operating temperature	0 to plus 70 C with derating

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to plus 70 C with derating
Operating Temperature	0 to plus 70 C with derating
Humidity	5 to 80 percent RH non-condensing
Altitude Operating	10000 feet maximum
Mass	280 g
Mtbf Demonstrated Mil Hdbk 217E	170000 hours
Dimensions	5.00 × 3.00 × 1.2 inches (127 × 76.2 × 30.5 mm class) Notes From Emerson/Artesyn NFS40 series datasheet ordering row NFS40-7608J electrical and environmental tables. J suffix denotes RoHS Pb-free per OEM note 14. Minimum 0.5 A on plus 5 V required for full negative-rail current per OEM note 6.

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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OutputCMaximum Convection	0.35 A
OutputCPeak	1 A
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OutputCRipple	120 mV
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Input Voltage Range	85 to 264 Vac or 120 to 370 Vdc
Input Frequency	47 to 440 Hz
Inrush Current 132 Vac Cold Start	12 A maximum
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Notes

From Emerson/Artesyn NFS40 series datasheet ordering row NFS40-7608J electrical and environmental tables. J suffix denotes RoHS Pb-free per OEM note 14. Minimum 0.5 A on plus 5 V required for full negative-rail current per OEM note 6.

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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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.