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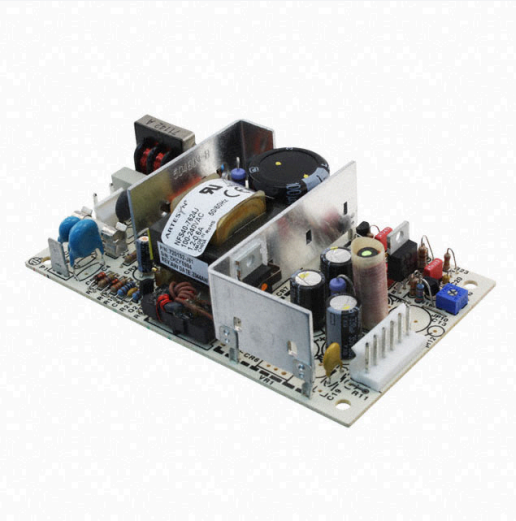
Data Sheet

August 15, 2026

ADVANCED ENERGY / ARTESYN

Advanced Energy / Artesyn NFS40-7612 Power Supply

The Advanced Energy / Artesyn NFS40-7612 is a power supply designed for various electronic applications. It provides reliable and efficient power conversion, ensuring stable operation of connected devices. This power supply features solid construction and advanced thermal management for enhanced durability and performance. Ideal for industrial and commercial settings, the NFS40-7612 offers a compact design and easy integration into existing systems.



MODEL

**Advanced Energy /
Artesyn NFS40-
7612**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NFS40-7612

LISTING

<https://aumictechlabs.com/products/nfs40-7612-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advanced Energy / Artesyn NFS40-7612 is a 40W open-frame AC-DC power supply engineered for industrial and commercial ITE applications. This single-output converter delivers +12V at 3.3A with universal input acceptance from 85–264 VAC or 120–370 VDC, making it suitable for diverse global power environments. The compact 5.00" × 3.00" × 1.20" chassis-mount design fits 1U form factors while maintaining 70% typical efficiency and supports both free-air and forced-air cooling scenarios. Technical Specifications Output: +12V @ 3.3A, single output Input Range: 85–264 VAC or 120–370 VDC Power Capability: 40W (free air), 50W (20 CFM)

forced air) Input Power Limit: 90W Input Surge Current: 12A max (132 VAC cold start), 24A max (264 VAC cold start) Efficiency: 70% typical Isolation Voltage: 3 kVAC Line Regulation: $\pm 0.2\%$ (main output, full load) Load Regulation: $\pm 2.0\%$ (full to no load) Temperature Coefficient: $\pm 0.02\%/^{\circ}\text{C}$ Operating Temperature: $0\text{--}70^{\circ}\text{C}$ with derating Operating Altitude: 10,000 feet maximum

Key Features Overvoltage Protection standard (OVP at $125\% \pm 15\%$ Vout) Short-circuit protection with indefinite current limiting on single outputs Minimum load requirement specified EMC compliance to EN55022 Class A VDE, UL, CSA, EN60950, IEC950 certified (series approvals) RoHS non-compliant

Typical Applications Industrial control systems, commercial telecommunications equipment, and embedded systems requiring regulated 12V rails with universal input acceptance and compact mounting integration.

Compatibility & Integration The NFS40-7612 is obsolete but remains available for purchase and support. Part status should be verified with distributor inventory before design integration. Chassis-mount configuration requires mechanical integration into host systems with appropriate thermal management for sustained operation.

NFS407612 Characteristics / Specifications

PARAMETER	VALUE
Model	NFS40-7612
Series	NFS40
Instrument Type	Single output AC-DC switching power supply
Output Voltage	12.0 V
Output Maximum Convection	3.3 A
Output Peak	5 A
Output Forced Air	4 A
Output Ripple	120 mV
Output Total Regulation	plus or minus 2.0 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
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

PARAMETER	VALUE
Voltage Adjustability	plus or minus 5.0 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
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 Notes From Emerson/Artesyn NFS40 series datasheet ordering row NFS40-7612J. Peak currents less than 30 s at less than 10 percent duty; peak total power must not exceed 60 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	
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Voltage Adjustability	plus or minus 5.0 percent

PARAMETER	VALUE
Temperature Coefficient	plus or minus 0.02 percent per°COperating 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 x 3.00 x 1.2 inches

Notes
From Emerson/Artesyn NFS40 series datasheet ordering row NFS40-7612J. Peak currents less than 30 s at less than 10 percent duty; peak total power must not exceed 60 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
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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.