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Data Sheet

August 15, 2026

ADVANCED ENERGY / ARTESYN / COMPUTER PRODUCTS

Advanced Energy / Artesyn / Computer Products NFS80-7606HM Quad Output AC/DC Power Supply Board

Advanced Energy / Artesyn / Computer Products Power Supply Modules. Frequency Range: 47 Hz to 440 Hz, Voltage / Current Range: +15V @ 2.5A, +24V @ 2A, ±15V @ 2.5A output, 90–264 VAC input; 120–370 VDC input; +5V @ 8A.



MODEL

Advanced Energy /
Artesyn /
Computer
Products NFS80-
7606HM

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

NFS80-7606HM

LISTING

<https://aumictechlabs.com/products/nfs80-7606hm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advanced Energy/Artesyn/Computer Products NFS80-7606HM is an 80 W quad-output AC/DC power supply board engineered for embedded system integration across telecommunications, networking, and industrial automation platforms. This compact module delivers simultaneous multi-voltage outputs with high efficiency up to 92% and operates across a broad input range spanning 90–264 VAC, 120–370 VDC, at 47–440 Hz. The design incorporates comprehensive protection including short-circuit auto-recovery, overvoltage limiting, and multiple

EMI/EMC compliance certifications, while achieving 125,000-hour MTBF under MIL-HDBK-217E conditions at 25°C. Technical Specifications Output Configuration: Four independent regulated channels Total Output Power: 80 W (free air); 110 W (20 CFM forced air cooling) Input Voltage: 90–264 VAC; 120–370 VDC Input Frequency: 47–440 Hz Output Voltages: +5 VDC @ 8 A, +24 VDC @ 2 A, +15 VDC @ 2.5 A, ±15 VDC @ 2.5 A Peak Output Current: +5V channel 20 A; auxiliary channels 6 A Efficiency: Up to 92%; typical 70% Line Regulation: ±0.1% max (main and auxiliary outputs) Temperature Coefficient: ±0.02%/°C across all outputs Transient Response: +5V at 10–12 A: 150 mV peak, 1 ms recovery Switching Frequency: 20–70 kHz Isolation: Input/Output 3 kVAC; Input/Chassis 1500 VAC Hold-up Time: 35 ms (110 VAC, 80 W); 140 ms (230 VAC, 80 W) MTBF: 125,000 hours (MIL-HDBK-217E @ 25°C) Key Features Short-circuit protection with auto-recovery Overvoltage limiting at +5V: 140% maximum Wide universal AC/DC input acceptance EMI/EMC compliant: EN55022, FCC Part 15 Level B ESD immunity to EN61000-4-2 Level 4 (contact) Surge immunity EN61000-4-5 Level 3 Radiated and conducted immunity per EN61000-4-3 and EN61000-4-6 Level 3 Typical Applications Telecommunications infrastructure equipment Network switching and routing platforms Industrial automation control systems Embedded multi-voltage distributed power Compatibility & Integration The NFS80-7606HM integrates into systems requiring simultaneous 5V, 15V, 24V, and dual ±15V supplies. Board-level form factor enables direct PCB mounting within space-constrained enclosures while maintaining specified isolation and transient performance.

NFS807606HM Characteristics / Specifications

PARAMETER	VALUE
Model	NFS80-7606
Series	NFS80
Instrument Type	Quad output AC-DC switching power supply
Output 1 Voltage	5 V
Output 1 Maximum Current Convection	8 A
Output 1 Peak Current	20 A
Output 1 Fan Current	15 A
Output 1 Ripple	50 mV
Output 1 Total Regulation	plus or minus 2.0 percent
Output 2 Voltage	24 V
Output 2 Maximum Current Convection	2 A
Output 2 Peak Current	3 A
Output 2 Fan Current	2.5 A
Output 2 Ripple	240 mV
Output 2 Total Regulation	+10.0/-5.0 percent
Output 3 Voltage	15 V
Output 3 Maximum Current Convection	2.5 A
Output 3 Peak Current	6 A
Output 3 Fan Current	3 A
Output 3 Ripple	150 mV
Output 3 Total Regulation	plus or minus 3.0 percent
Output 4 Voltage	floating plus or minus 15 V
Output 4 Maximum Current Convection	2.5 A
Output 4 Peak Current	6 A
Output 4 Fan Current	3 A

PARAMETER	VALUE
Output 4 Ripple	150 mV
Output 4 Total Regulation	plus or minus 3.0 percent
Maximum Power Convection	80 W
Maximum Power Forced Air	110 W with 20 CFM
Input Voltage Ac	90 to 264 Vac
Input Voltage Dc	120 to 370 Vdc
Input Frequency	47 to 440 Hz
Inrush 115 Vac Cold Start	19 A
Inrush 230 Vac Cold Start	38 A
Hold Up 110 Vac At 80 W	35 ms
Hold Up 110 Vac At 110 W	17 ms
Efficiency Typical	70 percent
Isolation Input To Output	3000 Vac
Isolation Input To Chassis	1500 Vac
Overvoltage Protection Main	140 percent Vout maximum
Minimum Main Output Current	1 A
Switching Frequency	20 to 70 kHz
Operating Temperature	0 to 70 C with derating
Storage Temperature	-40 to plus 85 C
Mass	600 g
Mtbf Mil Handbook 217E At 25 C	250000 hours
Dimensions	7.0 x 4.25 × 1.8 inches

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	0 to 70 C with derating
Operating Temperature	0 to 70 C with derating
Mass	600 g
Mtbf Mil Handbook 217E At 25 C	250000 hours
Dimensions	7.0 x 4.25 × 1.8 inches Notes From Emerson Artesyn NFS80 Series datasheet ordering row NFS80-7606 / NFS80-7606J. Queue SKU NFS80-7606HM is a marked/hardware variant of the same 7606 output set; peak currents last less than 60 s at duty cycle less than or equal to 10 percent.

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

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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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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.