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Data Sheet

August 15, 2026

AULT KOREA / POWER GENERAL

Ault Korea / Power General FLU3-40-1 Triple Output Power Supply

Ault Korea / Power General DC Power Supplies. Voltage: sequencing topologies common in legacy and modern.



MODEL

Ault Korea / Power General FLU3-40-1

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FLU3-40-1

LISTING

<https://aumictechlabs.com/products/flu3-40-1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ault Korea / Power General FLU3-40-1 is a 40 W open-frame switching power supply delivering triple regulated DC outputs for embedded systems and industrial electronics. It accepts universal AC input (85–265 VAC, 47–440 Hz) or DC input (100–370 VDC), with MOV-protected mains and on-board fusing. The unit has +5 VDC @ 5 A, +12 VDC @ 3 A, and –12 VDC @ 0.7 A outputs, meeting continuous 40 W power delivery at typical efficiency of 62–75%. Protection includes power-limit overcurrent control, continuous short-circuit protection, and primary-output over-voltage clamping. Hold-up time exceeds 16 ms (115 VAC input) and 32 ms (230 VAC input) at full load. The design incorporates standard EMI filtering compliant with EN55022/FCC Class B conducted emissions. With 1% peak-to-peak ripple and noise, $\pm 0.05^{\circ}\text{C}/^{\circ}\text{C}$ temperature coefficient, and 200,000 hour MTBF (MIL-HDBK-217F, ground benign, +25°C), the FLU3-40-1 suits OEM integration where compact form factor and multi-voltage rails are required. Technical

Specifications Input: 85–265 VAC, 47–440 Hz or 100–370 VDC Output Power: 40 W maximum
Output Voltages: +5 VDC @ 5 A, +12 VDC @ 3 A, –12 VDC @ 0.7 A Efficiency: 62–75% typical
Hold-Up Time: 16 ms (115 VAC), 32 ms (230 VAC) at full load Ripple & Noise: 1% peak-to-peak
maximum Temperature Coefficient: $\pm 0.05\%/^{\circ}\text{C}$ MTBF: 200,000 hours (MIL-HDBK-217F, ground
benign, $T_A = +25^{\circ}\text{C}$) Input Fuse: 2 A/250 V slow-blow (recommended replacement) Key Features
Triple regulated outputs for mixed-voltage applications Universal AC and DC input acceptance
Continuous short-circuit and overcurrent protection MOV transient suppression on mains input
EMI filtering meets EN55022/FCC Class B Low ripple specification (1% peak-to-peak) 16–32 ms
hold-up time across input range Typical Applications Industrial control and instrumentation
Embedded system power distribution Multi-rail OEM integration Telecom and network equipment
Compatibility & Integration Open-frame configuration suits direct PCB mounting and confined
enclosures. On-board fusing and transient protection reduce external component count. Outputs
support standard load-share and voltage-sequencing topologies common in legacy and modern
embedded designs.

FLU340 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Open frame 40 W flyback switching power supply
Family	Power General FLU 40 W (Nidec Power General / Ault)
Input Voltage	85 to 265 VAC single phase or 100 to 370 VDC
Input Line Frequency	47 to 440 Hz (AC input models)
Continuous Output Power	40 W maximum
Efficiency	62 to 75 percent typical at nominal line and nominal load
Hold Up Time	16 ms at 115 VAC and 32 ms at 230 VAC, minimum, full load
Switching Frequency	40 kHz fixed, current mode flyback
Ripple And Noise	1 percent peak to peak maximum (20 MHz, 0.1 uF at terminals)
Primary Adjust	plus or minus 5 percent on primary output; auxiliaries fixed
Minimum Load	0 percent
Overload Protection	power limit circuit; continuous short circuit
Overvoltage Protection	primary output only
Isolation Hipot	5300 VDC input to output for one minute (FLU series)
Emi Filter	EN55022/FCC Class B, typically 10 dB margin
Operating Temperature	minus 20 C to plus 70 C
Power Derating	linear 2 percent perCfrom plus 50 C to plus 70 C
Temperature Coefficient	plus or minus 0.05 percent perCHumidity: 0 to 95 percent non-condensing
Altitude	0 to 10,000 feet
Storage Temperature	minus 40 C to plus 85 C
Mtbf	greater than 200,000 hours MIL HDBK 217F ground benign plus 25 C
Safety Approvals	UL1950, CSA 22.2 No. 234, EN60950/IEC950
Input Fuse	2 A / 250 V slow blow recommended
Cooling	convection; moving air recommended in confined area
Manufacturer	Power General / Ault Korea (Nidec Power General)

PARAMETER	VALUE
Literature	Power General FLU/MDU/DC 40 W open frame datasheet
Model	FLU3-40-1
Output Count	3
Primary Output	+5 V, 0.0 A min, 3.00 A nom, 5.00 A max
Auxiliary Positive	+12 V, 0.0 A min, 1.50 A nom, 3.00 A peak
Auxiliary Negative	minus 12 V, 0.0 A min, 0.50 A nom, 0.70 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	5.0 percent on V2 and V3
Peak Current Note	V2 peak 5.0 A less than 60 s, duty cycle less than 10 percent
Combined Current Cap	sum of primary and auxiliary currents must not exceed 5.0 A
Babt Approval	FLU3-40 series BABT/EN41003 NS/4199/123/R/604674
Construction Code	AD open PCB
Humidity	0 to 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 85 C
Operating temperature	minus 20 C to plus 70 C
Operating Temperature	minus 20 C to plus 70 C
Humidity	0 to 95 percent non-condensing
Power Derating	linear 2 percent perCfrom plus 50 C to plus 70 C
Temperature Coefficient	plus or minus 0.05 percent perCHumidity: 0 to 95 percent non-condensing
Altitude	0 to 10,000 feet
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PARAMETER	VALUE
Construction Code	AD open PCB Notes From Power General FLU/MDU/DC 40 W datasheet FLU3-40-1AD row and notes 2 and peak-current footnote. Queue SKU FLU3-40-1 is the +5/+12/minus 12 member.

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	
Technical Specifications	
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Emi Filter	EN55022/FCC Class B, typically 10 dB margin
Operating Temperature	minus 20 C to plus 70 C
Power Derating	linear 2 percent per C from plus 50 C to plus 70 C
Temperature Coefficient	plus or minus 0.05 percent per C
Humidity	0 to 95 percent non-condensing
Altitude	0 to 10,000 feet
Storage Temperature	minus 40 C to plus 85 C
Mtbf	greater than 200,000 hours MIL HDBK 217F ground benign plus 25 C
Safety Approvals	UL1950, CSA 22.2 No. 234, EN60950/IEC950
Input Fuse	2 A / 250 V slow blow recommended
Cooling	convection; moving air recommended in confined area
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PARAMETER	VALUE
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Model	FLU3-40-1
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Primary Output	+5 V, 0.0 A min, 3.00 A nom, 5.00 A max
Auxiliary Positive	+12 V, 0.0 A min, 1.50 A nom, 3.00 A peak
Auxiliary Negative	minus 12 V, 0.0 A min, 0.50 A nom, 0.70 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	5.0 percent on V2 and V3
Peak Current Note	V2 peak 5.0 A less than 60 s, duty cycle less than 10 percent
Combined Current Cap	sum of primary and auxiliary currents must not exceed 5.0 A
Babt Approval	FLU3-40 series BABT/EN41003 NS/4199/123/R/604674
Construction Code	AD open PCB

Notes
From Power General FLU/MDU/DC 40 W datasheet FLU3-40-1AD row and notes 2 and peak-current footnote. Queue SKU FLU3-40-1 is the +5/+12/minus 12 member.

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.