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Data Sheet

August 15, 2026

AULT KOREA / POWER GENERAL

Ault Korea / Power General FLU3-40-6AD Triple Output Power Supply

The Ault Korea / Power General FLU3-40-6AD is a 40W open-frame switching power supply engineered for industrial and commercial applications requiring multiple isolated outputs. This triple-output unit accepts universal AC input (85–265 VAC) or universal DC input (100–370 VDC) with line frequency tolerance of 47–440 Hz, delivering stable regulated power across three independent channels. The supply incorporates soft-start, over-current power-limit, continuous short-circuit, and primary output over-voltage protection. Input transient protection via MOV and onboard fusing (recommended 2A/250V slow-blow) safeguard against upstream disturbances. EMI filter exceeds EN55022/FCC Class B conducted limits by 10 dB typical

Output Performance Line regulation: 0.5% typical; Load regulation: 1.0% typical; Cross regulation: 1.0% typical Dual input acceptance (AC and universal DC) eliminates supply c



MODEL

Ault Korea / Power General FLU3-40-6AD

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FLU3-40-6AD

LISTING

<https://aumictechlabs.com/products/flu3-40-6ad-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ault Korea / Power General FLU3-40-6AD is a 40W open-frame switching power supply engineered for industrial and commercial applications requiring multiple isolated outputs. This

triple-output unit accepts universal AC input (85–265 VAC) or universal DC input (100–370 VDC) with line frequency tolerance of 47–440 Hz, delivering stable regulated power across three independent channels. The supply incorporates soft-start, over-current power-limit, continuous short-circuit, and primary output over-voltage protection. Input transient protection via MOV and onboard fusing (recommended 2A/250V slow-blow) safeguard against upstream disturbances.

Technical Specifications

Input & Protection Universal AC: 85–265 VAC, 47–440 Hz Universal DC: 100–370 VDC Input line protection: MOV transient suppression, onboard fuse EMI filter exceeds EN55022/FCC Class B conducted limits by 10 dB typical

Output Performance Triple DC outputs; Output 1 & 2 rated 15V (ISO) at 0.30A nominal, 0.50A maximum Peak current ratings: 5.0A, 3.0A, and 2.0A (<60 seconds, <10% duty cycle) Line regulation: 0.5% typical; Load regulation: 1.0% typical; Cross regulation: 1.0% typical Voltage tolerance: 4.0% typical Output ripple and noise: 1% peak-to-peak maximum Efficiency: 62–75% typical at nominal input and load Hold-up time: 16 ms (115 VAC), 32 ms (230 VAC) minimum at full load Thermal Operating range: –20°C to +70°C Cooling: Convection adequate; forced air recommended in confined spaces De-rating: 2%/°C linear from +50°C to +70°C Temperature coefficient: $\pm 0.05\%/^{\circ}\text{C}$ across operating range

Key Features Soft-start circuit reduces inrush current and stress on input components Continuous short-circuit protection on all outputs Dual input acceptance (AC and universal DC) eliminates supply compatibility concerns Over-current power-limit preserves load integrity during transient conditions Low output ripple (1% pk-pk max) suitable for noise-sensitive analog circuits

Typical Applications Industrial control systems, distributed power architectures, multi-rail embedded systems, laboratory instrumentation, and OEM equipment requiring isolated triple outputs with universal input flexibility.

Compatibility & Integration The FLU3-40-6AD integrates into open-frame installations where space permits convection cooling. Convection operation is standard; forced-air cooling extends thermal margin in restricted enclosures. Triple isolated outputs enable independent load regulation without cross-rail coupling.

FLU3406AD 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	FLU3-40-6AD
Output Count	3 isolated
Primary Output	5 V isolated, 0.0 A min, 5.00 A nom, 6.00 A max
Auxiliary Positive	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Auxiliary Negative	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	4.0 percent on V2 and V3
Primary Line Regulation	0.2 percent
Auxiliary Line Regulation	0.5 percent
Primary Load Regulation	0.5 percent
Auxiliary Load Regulation	1.0 percent
Output Connector	Molex 26-60-4080 P2 (models 5 and 6)
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
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)
Literature	Power General FLU/MDU/DC 40 W open frame datasheet
Model	FLU3-40-6AD
Output Count	3 isolated
Primary Output	5 V isolated, 0.0 A min, 5.00 A nom, 6.00 A max
Auxiliary Positive	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Auxiliary Negative	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	4.0 percent on V2 and V3
Primary Line Regulation	0.2 percent
Auxiliary Line Regulation	0.5 percent
Primary Load Regulation	0.5 percent
Auxiliary Load Regulation	1.0 percent
Output Connector	Molex 26-60-4080 P2 (models 5 and 6)

PARAMETER	VALUE
Construction Code	AD open PCB Notes From Power General FLU/MDU/DC 40 W datasheet FLU3-40-6AD isolated triple row and P2 connector note for models 5 and 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	
Technical 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 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
Manufacturer	Power General / Ault Korea (Nidec Power General)

PARAMETER	VALUE
Literature	Power General FLU/MDU/DC 40 W open frame datasheet
Model	FLU3-40-6AD
Output Count	3 isolated
Primary Output	5 V isolated, 0.0 A min, 5.00 A nom, 6.00 A max
Auxiliary Positive	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Auxiliary Negative	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	4.0 percent on V2 and V3
Primary Line Regulation	0.2 percent
Auxiliary Line Regulation	0.5 percent
Primary Load Regulation	0.5 percent
Auxiliary Load Regulation	1.0 percent
Output Connector	Molex 26-60-4080 P2 (models 5 and 6)
Construction Code	AD open PCB

Specifications

PARAMETER	VALUE
Instrument Type	Open frame 40 W flyback switching power supply
Family	Power General FLU 40 W (Nidec Power General / Ault)
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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

PARAMETER	VALUE
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)
Literature	Power General FLU/MDU/DC 40 W open frame datasheet
Model	FLU3-40-6AD
Output Count	3 isolated
Primary Output	5 V isolated, 0.0 A min, 5.00 A nom, 6.00 A max
Auxiliary Positive	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Auxiliary Negative	15 V isolated, 0.0 A min, 0.30 A nom, 0.50 A max
Primary Tolerance	1.0 percent
Auxiliary Tolerance	4.0 percent on V2 and V3
Primary Line Regulation	0.2 percent
Auxiliary Line Regulation	0.5 percent
Primary Load Regulation	0.5 percent
Auxiliary Load Regulation	1.0 percent
Output Connector	Molex 26-60-4080 P2 (models 5 and 6)
Construction Code	AD open PCB

Notes

From Power General FLU/MDU/DC 40 W datasheet FLU3-40-6AD isolated triple row and P2 connector note for models 5 and 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.