

EASYMOD AE-080U SERIES SWITCHERS

80 watts - 3" x 5" - Single to Quad Output

IF WHAT YOU WANT IS WHAT YOU NEVER GET IN SWITCHER PERFORMANCE!! The POWER SOLUTION for up to 85 watts steady state of high reliability, Universal AC input power can be found in the AL-085 family of 3" x 5" x 1.2" PC Card EASYMOD switchers. These models are available in a complete range of single to quad output configurations from 1.5 to >48 VDC. Most models deliver 85W (95W peak) of highly regulated output power. This series has on-board Class B EMI filtering, is EN61000-3-2 compliant, ACE@ certified and delivers continuous full power output to 50°C, and is capable of operation from -40°C to +70°C.

EASYMOD simply means: IF WHAT YOU SEE IS WHAT YOU DON'T WANT, IT CAN BE EASILY CHANGED. EASYMODS include; extended temperature operating range, isolated outputs, unique output combinations, available DC inputs, low noise versions, unique cables and harnesses and much, much more. All these modifications are available at nominal (if any) additional cost, and normally without any impact on safety agency approvals which reduces both development cost and time to market.

Call EASYMOD Support on (U.S.) +1-954-346-2442 or (U.K.) +44 (0)1903 768204 or email easymod@unipower-europe.com.



INPUT SPECIFICATION

Input Voltage	.....47-63 Hz; 90-264 VAC
Harmonic Content	..... Meets EN61000-3-2 Amendment 14
Inrush Current, Cold Start	.....25A max
Input Current	..... 2.5A
Fusing	..... 3.15A @ 250VAC On Board

OUTPUT SPECIFICATION

Continuous Output Power ⁵	..... 80 Watts
Line Regulation Over Input Range; V1-V4	..... 0.2%
Load Regulation @ 60% 0% Full Load	
V1 - V2	..... 3%
V3 - V4 ⁶	..... 5% _{max}
Cross Regulation @ 60% 40% Full Load	
V1: Change in V2-V4	..... 0.5%
V2-V4: Change in V1 @75 25% F/L	..... 5% _{max}
Overvoltage Protection V1	..... 130% Vout typ
Overshoot, All Outputs	..... 10% max
Power Limit	..... Set @120% typ
Response Time ¹	..... 500 µSec
Ripple & Noise ³ @ 20 Mhz Band Width ; Full Load	
All Outputs	..... 1% P-P max
Output Adjustment Range on V1	..... 5% min

FEATURES & OPTIONS

- V1 & V2 REGULATED
- CE MARKED
- 1.5-48 VDC OUTPUTS AVAILABLE
- EN61000-3-2 COMPLIANCE
- CB REPORT
- UL 60950 / 2601 APPROVALS
- EN 60950 / 601-1 APPROVALS
- 40°C START-UP - OPTION
- 24 & 48VDC INPUT MODELS

GENERAL SPECIFICATION

Efficiency	.....75% typ
Switching Frequency	.....60KHz typ
Susceptibility / Immunity	.....See Note 2
Operating Temperature Range ³	..... -20 to +70°C
Minimum Start-up Temperature ³	..... -20°C
Derating from 50-70°C	..... 2.5%/°C
Storage Temperature	..... -40 to +85°C
Cooling	.....See Note 5
Relative Humidity; Non-Condensing	..... 5 - 95%
Altitude	.....10,000 ft
EMI	..... FCC & VDE B ; EN55022; EN55024
Vibration ⁴ from 10-55Hz	..... 1.0G Peak
Safety Agency Approvals:	..... UL & cUL 60950 / 2601;
	..... EN 60950 / 601-1;CE; CB REPORT

Notes :

1. All outputs return within 1% of nominal for load change from 25-75% to excursion.
2. Meets EN61000-4-2; -3; -4; -5; -6; -8; -11
3. Ripple & noise may not meet published specifications for 2 min. after start-up below 0°C.
4. Three orthogonal axes @ 1 octave/min. 5 min. dwell @ four major resonances.
5. Rated with 30 CFM air; Rated at 60 watts convection.
6. Three terminal post regulation available.
7. All specifications typical at nominal line, full load & 25°C, and are subject to change without notice.

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