

#### **DESCRIPTION**

UNIPOWER'S EASYMOD® AE-080U SERIES is an 80 Watt Power Supply platform with both standard and configurable models featuring output voltage(s) that can be quickly configured to order while maintaining all international safety approvals.

These power supplies are available with Universal AC Input and single or quadout put configurations ranging from 1.5 to 48 VDC. The AE-080U feature an industry-standard footprint, international safety approvals, Class B emissions; and -20 ~ +70°C operation (see derating).

EASYMOD® UPGRADES include a multitude of output voltage configurations, optional covers (with or without fan), extended temperature operating range, isolated outputs, attached wire harnesses and much, much more. All these modifications are available without any impact on safety approvals to reduce both development cost and time to market.

#### **FEATURES**

- ◆ Universal AC Input Range (90-264 VAC)
- ♦ Industry-Standard 3.2" x 5" U-Frame Footprint
- ◆ 1 or 4 Outputs configurable from 1.5~48VDC
- ♦ International Safety Approvals
- ♦ >500k Hours MTBF, Demonstrated
- ◆ Optional -40°C Guaranteed Start-Up
- ◆ Double Sided PC Board



**FIVE YEAR WARRANTY** 

INTERNATIONAL STANDARDS

UL/cUL 60950-1 2nd Ed. EN60950-12nd Ed. CB Report, IEC60950-1 CE Mark (LVD)

# EASYMOD® AE-080U AC INPUT / ITE APPROVED 80 WATT POWER PLATFORM









Contact UNIPOWER to discuss your application and define the right part number for your specific application:

Tel: +1-954-905-1070

Email: the.power.solution@unipowerco.com

For the DC input version see DCMOD AE-080D datasheet

For the Medical Approved version see MEDIMOD AE-080UM datasheet

www.unipowerco.com



"IF WHAT YOU SEE IS WHAT YOU DON'T WANT, IT CAN EASILY BE CHANGED." The EASYMOD® family of switching power supplies has been designed with two precepts; (1) the laws of physics are immutable, and (2) the satisfaction of customer requirements and needs is paramount.

A host of modifications, only some of which are listed below, can and will be performed on products for customer programs requiring as few as 250 units per year. These "mods" are available at nominal premium (if any), normally without non-recurring engineering costs (although a one time documentation fee may be incurred), and usually with all safety agency approvals in place. This minimizes both product development cost and new product time to market. Effectively, EASYMODs® allow small program requirements the luxury of costly custom power supply designs.

#### TYPICAL MODIFICATIONS

- · Unique Output Combinations from 1.5 to >48 volts
- · Isolated Outputs

- · -40°C Start-Up
- · Zero Load Operation

- · Low Output Ripple and Noise
- · Cover & Fan Assembly
- · Extended Temperature Operating Range

#### FLEXIBLE OUTPUT CONFIGURATION GUIDELINES

with 90-264 VAC Input and -20-50°C Operation

#### Single Output Capabilities

OUTPUT CURRENT	1.5~3.3V	5V	12V	15V	24V	48V
MINIMUM	OA	OA	OA	OA	OA	0A
CONVECTION (3)	12A	12A	5.0A	4.0A	2.5A	1.25A
15 CFM AIR (4)	16A	16A	6.6A	5.3A	3.3A	1.67A
PEAK (5)	19A	19A	7.5A	6.3A	3.75A	1.87A

## Multiple Output Capabilities

OUTPUT	DC OUTPUT	MIN	CON (3)	AIR (4)	PEAK (4, 5)
V1	1.5 ~ 48V <sup>(7)</sup>	1.0A <sup>(2, 13)</sup>	10.0A	14.0A	16.0A
V2	1.5 ~ 48V <sup>(8)</sup>	0.4A <sup>(2, 13)</sup>	4.0A	7.0A	9.0A
V3	1.5 ~ 48V <sup>(8)</sup>	0.4A <sup>(2, 13)</sup>	4.0A	5.0A	6.5A
V4	1.5 ~ 48V <sup>(8)</sup>	0.2A (2, 13)	2.0A	3.0A	4.0A

- (1) Full power out on V3-V4 with minimal V1 and V2 loading—Option.
- (2) 10% minimum load for stated regulation on multiple O/P units.
- (3) Convection cooling.
- (4) 15 CFM forced air cooling conditions.
- (5) 30 seconds maximum duration.
- (6) Most output combinations from 1.5 to 48 Volts possible; up to maximum rated Current / Power...Consult UNIPOWER.

- (7) Specify 0.1V increments.
- (8) Specific output voltage is current dependent.
- (9) Regulation may degrade under some output Consult UNIPOWER.
- (10) Consult UNIPOWER for Model #.
- (11) For outputs >48 Volts, consult UNIPOWER.
  (12) Cover and custom sheet metal available.
- (13) 10% minimum of marked rating.

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### **SPECIFICATIONS**

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

INPUT	
Input Voltage Range Options	90-264 VAC
Frequency	47-63Hz
Power Factor	EN61000-3-2 Compliant
Inrush Current	35A Max (cold start)
Input Current @ 115VAC	
Fusing	3.15A / 250VAC
OUTPUT	
Output Power60W Co	nvection / 80W with 15 CFM Airflow
Hold-up Time	
Efficiency	
Adjustment Range (V1 Only)	
Ripple / Noise, max	1% pk-pk max
Line Regulation	
Load Regulation @ 60% ±40% Full Load	
	±3% max
	±5% max
Cross Regulation @ 60% ± 40% Full Load	
	±0.5%
	±5% max
Overvoltage Protection (V1 Only)	
Power Limit	
Overshoot (all outputs)	
Response Time	
Switching Frequency	bukhz (typicai)

ENVIRONMENTAL Operating Temp. Range	
Storage Temp. Range	and Industrial Temperature Range options
Weight	5.00 x 3.20 x 1.50" / 127 x 81.3 x 38.1mm 
Vibration from 10 - 55Hz	ute dwell @ 4 major resonances)
SAFETY STANDARDS UL60950-1 2nd Ed., EN60950- CE MARK (LVD)	1 2nd Ed., CB REPORT (IEC 60950-1),
EMI STANDARDS	

FCC Class B & VDE Class B, CISPR 22; EN 55022 Class B

### **OUTLINE DRAWING**

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