

DESCRIPTION

UNIPOWER's **EASYMOD AM-120U** is a 120 Watt Power Supply platform with output voltage(s) that are quickly configured to order with international safety approvals.

These power supplies are available in a complete range of single to quad output configurations from 1.5 to >48 VDC. Delivering 120 (135 peak) watts of highly regulated output power, the AM-120U offers Class B emissions, is CE marked, complies to EN61000-3-2, delivers continuous full power output to 50°C, and is capable of operation up to 70°C.

EASYMOD UPGRADES include a multitude of output voltage configurations, optional covers (with or without fan), extended temperature operating range, isolated outputs, DC inputs, 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 - meets EN61000-3-2
- ◆ Small 3.3 x 5.0 x 1.5" U-Frame Package
- ◆ 1~4 Outputs configurable from 1.5~48VDC
- ◆ Remote Sense Option (V1 Only)
- ◆ Optional Overtemperature Protection
- ◆ >250k Hours MTBF (Mil217F)
- ◆ Optional -40°C Guaranteed Start-Up



TWO-YEAR WARRANTY

INTERNATIONAL STANDARDS

UL/cUL 60950-1 2nd Edition
 TUV IEC 60950-1 2nd Edition
 CB Report, CE Mark (LVD)

Contact Unipower to discuss your application and define the right part number for your specific application.

FLEXIBLE CUSTOMER 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	0	0	0	0	0	0
CONVECTION ⁽³⁾	18	18	7.5	6	3.76	1.87
30 CFM AIR ⁽⁴⁾	24	24	10	8	5	2.5
PEAK ⁽⁵⁾	27	27	11	9	7	3

Multiple Output Capabilities

OUTPUT	DC OUTPUT	MIN	CON ⁽³⁾	AIR ⁽⁴⁾	PEAK ^(4, 5)
V1	1.5 ~ 48V ⁽⁷⁾	2.4 ^(2,13)	18	24	27
V2	1.5 ~ 48V ⁽⁸⁾	0.6 ^(2,13)	5	6	8
V3	1.5 ~ 48V ⁽⁸⁾	0.2 ^(2,13)	1.8	2	3
V4	1.5 ~ 48V ⁽⁸⁾	0.2 ^(2,13)	1.8	2	3

- (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)...30CFM forced air cooling, conditions.
 (5)...30 seconds maximum duration.
 (6)...Most output combinations from 2 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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STOCKED / OFF-THE-SHELF MODELS

Listed below are common configurations stocked by UNIPOWER for immediate delivery.

Single Output Models

MODEL	V1	MIN	CON	AIR	PEAK
AM-120U-S1-STD	5V	0	18A	24A	27A
AM-120U-S2-STD	12V	0	7.5A	10A	11.25A
AM-120U-S4-STD	24V	0	3.76A	5A	7A
AM-120U-S5-STD	48V	0	1.87A	2.5A	3A

Quad Output Models

MODEL	V1	MIN	CON	AIR	V2	MIN	CON	AIR	V3	MIN	MAX	V4	MIN	MAX
AM-120U-Q1221-STD	+5V	1.2A	9A	12A	+12V	0.6A	4.5A	6A	-12V	0.2A	2A	-5V	0.2A	2A
AM-120U-Q1331-STD	+5V	1.2A	9A	12A	+15V	0.6A	4.5A	6A	-15V	0.2A	2A	-5V	0.2A	2A
AM-120U-Q1224-STD	+5V	1.2A	9A	12A	+12V	0.6A	4.5A	6A	-12V	0.2A	2A	+24V	0.2A	2A
AM-120U-Q1334-STD	+5V	1.2A	9A	12A	+15V	0.6A	4.5A	6A	-15V	0.2A	2A	+24V	0.2A	2A
AM-120U-Q0122-STD	+3.3V	1.2A	9A	12A	+5V	0.5A	4A	5A	+12V	0.2A	2A	-12V	0.2A	2A
AM-120U-Q0133-STD	+3.3V	1.2A	9A	12A	+5V	0.5A	4A	5A	+15V	0.2A	2A	-15V	0.2A	2A
AM-120U-Q0124-STD	+3.3V	1.2A	9A	12A	+5V	0.5A	4A	5A	+12V	0.2A	2A	+24V	0.2A	2A

MIN = Minimum Load Required for specified regulation
 CON = Maximum continuous output current with Convection Cooled Operation (Total power not to exceed 90 Watts continuous)
 AIR = Maximum continuous output current with 30 CFM Airflow Operation (Total power not to exceed 120 Watts continuous)
 OPTIONAL TOP COVER - Add suffix C to the end of the model number to include a ventilated top cover.
 OPTIONAL COVER/FAN ASSEMBLY - Consult factory to request an integrated cover/fan assembly.

