

DESCRIPTION

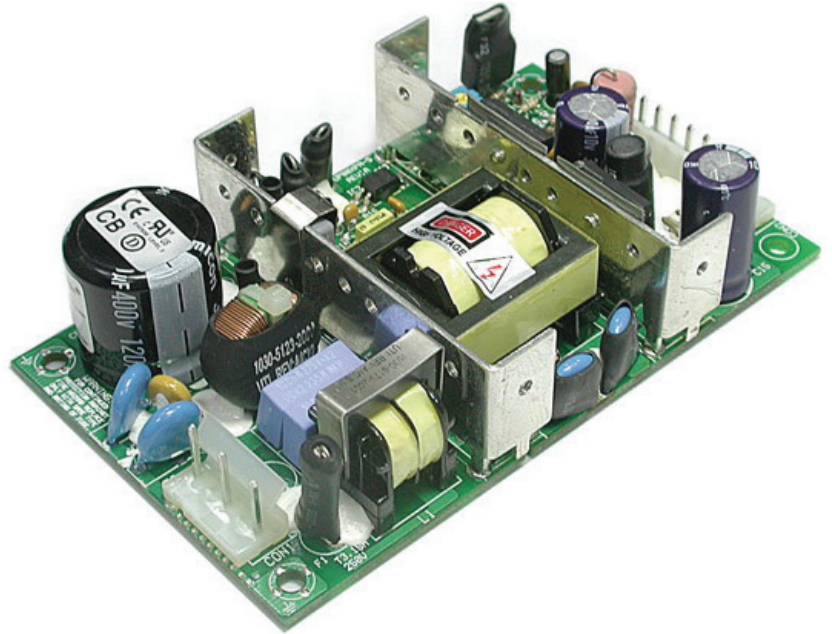
UNIPOWER's **AD-070U SERIES** is a 70 Watt Power Supply platform with both standard and configurable models featuring output voltage(s) that can be quickly configured to order while maintaining all international safety approvals.

These power supplies are available with Universal AC Input and single or quad output configurations ranging from 1.5 to 48 VDC. The AD-070U 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, 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 Range (90-264 VAC)
- ◆ Industry-Standard 3 x 5" Footprint
- ◆ 1 or 4 Outputs configurable from 1.5~48VDC
- ◆ International Safety Approvals
- ◆ Low Noise Option - 0.5% pk-pk ripple
- ◆ >250k Hours MTBF (MIL-217F)
- ◆ Optional -40°C Guaranteed Start-Up



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

TWO-YEAR WARRANTY

INTERNATIONAL STANDARDS

UL/cUL 60950-1 2nd Edition,
DEMKO EN60950-1 2nd Edition,
CB Report, IEC60950-1
CE Mark (LVD)

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	0A	0A	0A	0A	0A	0A
CONVECTION ⁽³⁾	10A	10A	4.2A	3.3A	2.1A	1.1A
30 CFM AIR ⁽⁴⁾	14A	14A	5.9A	4.6A	3.0A	1.4A
PEAK ⁽⁵⁾	15A	15A	6.5A	5.0A	3.5A	1.5A

Multiple Output Capabilities

OUTPUT	DC OUTPUT	MIN	CON ⁽³⁾	AIR ⁽⁴⁾	PEAK ^(4, 5)
V1	1.5 ~ 48V ⁽⁷⁾	0.80A	8.0A	12.0A	13.0A
V2	1.5 ~ 48V ⁽⁸⁾	0.40A	4.0A	5.0A	6.0A
V3	1.5 ~ 48V ⁽⁸⁾	0.40A	4.0A	5.0A	6.0A
V4	1.5 ~ 48V ⁽⁸⁾	0.20A	2.0A	2.5A	3.0A

- (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)...10 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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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
AD-070U-S1	5V	0A	10.0A	14.0A	15.0A
AD-070U-S2	12V	0A	4.2A	5.9A	6.5A
AD-070U-S4	24V	0A	2.1A	3.0A	3.5A
AD-070U-S5	48V	0A	1.1A	1.4A	1.5A

Quad Output Models

MODEL	V1	MIN	CON	AIR	V2	MIN	CON	AIR	V3	MIN	CON	AIR	V4	MIN	CON	AIR
AD-070U-xx	+5V	0.80A	8.0A	12.0A	+12V	0.40A	1.67A	2.1A	-12V	0.2A	1.67A	2.1A	-12V	0.2A	1.0A	1.2A
AD-070U-xx	+5V	0.80A	8.0A	12.0A	+15V	0.40A	1.67A	1.7A	-15V	0.2A	1.67A	1.7A	-15V	0.2A	0.8A	1.0A
AD-070U-xx	+5V	0.80A	8.0A	12.0A	+12V	0.40A	1.67A	2.1A	+24V	0.2A	1.67A	1.1A	+24V	0.2A	0.5A	0.6A
AD-070U-xx	+3.3V	0.80A	8.0A	12.0A	+5V	0.40A	4.0A	5.0A	+12V	0.2A	1.67A	2.1A	+12V	0.2A	1.0A	1.2A
AD-070U-xx	+3.3V	0.80A	8.0A	12.0A	+5V	0.40A	4.0A	5.0A	+15V	0.2A	1.67A	1.7A	+15V	0.2A	0.8A	1.0A
AD-070U-xx	+3.3V	0.80A	8.0A	12.0A	+5V	0.40A	4.0A	5.0A	+24V	0.2A	1.67A	1.1A	+24V	0.2A	0.5A	0.6A

- MIN** = Minimum Load Required for specified regulation
CON = Maximum continuous output current with Convection Cooled Operation (Total power not to exceed 30 Watts continuous)
AIR = Maximum continuous output current with 10 CFM Airflow Operation (Total power not to exceed 40 Watts continuous)

