EASYMOD® AG-350P

AC INPUT / ITE APPROVED
350 WATT POWER PLATFORM

8.00 x 4.50 x 2.00" / 203.2 x 114.3 x 50.8mm

DESCRIPTION

UNIPOWER's **EASYMOD® AG-350P SERIES** is a 350 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 AG-350P feature an industry-standard footprint, medical 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)
- Active PFC
- 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.
EN60950-1 2nd Ed.
CB Report, IEC60950-1
CE Mark (LVD)

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 AG-350D datasheet

For the Medical Approved version see MEDIMOD AG-350PM datasheet

"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
- Power Fail / Power Good Signals
- Enable / Inhibit
- Isolated Outputs
- Low Output Ripple and Noise
- Cover & Fan Assembly
- Extended Temperature Operating Range
- -40°C Start-Up
- Zero Load Operation
- Remote Sense
- Remote On / Off

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)	30A	30A	16.6A	13.3A	8.3A	4.2A
30 CFM AIR (4)	60A	60A	29A	23A	14.5A	7.25A
PEAK (5)	65A	65A	31A	25A	16A	18A

Multiple Output Capabilities

OUTPUT	DC OUTPUT	MIN	CON (3)	AIR (4)	PEAK (4, 5)
V1	1.5 ~ 48V (7)	4.0A (2, 13)	40A	60A	65A
V2	1.5 ~ 48V (8)	1.7A (2, 13)	17A	32A	35A
V3	1.5 ~ 48V (8)	0.5A (2, 13)	5A	7A	10A
V4	1.5 ~ 48V (8)	1.1A (2, 13)	11A	14A	18A

(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) 30 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	50A Max (cold start)
Input Current @ 115VAC	6.0A max
Fusing	8A / 250VAC

OUTPUT

Output Power	200W Convection / 350W with 30 cfm Airflow
Hold-up Time	16mSec
Efficiency	75% Typical
Adjustment Range (V1 Only)	±5%
Ripple / Noise, max	1% pk-pk max
Line Regulation	Max ±0.2%
Load Regulation @ 60% ±40% Full Load	
V1	±3% max
V2-V4	±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 Only)	>130% (Latch Off)
Power Limit	>120% (Auto-Recovery)
Overshoot (all outputs)	10% max
Response Time	500 µSec (25-75% step load)
Switching Frequency	60KHz (typical)

ENVIRONMENTAL

Operating Temp. Range	-20°C to +50°C (Full Load) Consult factory for -40°C Guaranteed Start-Up and Industrial Temperature Range options
Output Current Derating	2.5%/°C, 50°C to 70°C
Storage Temp. Range	-40°C to + 85°C
Humidity	5% to 95%, Non-Condensing
MTBF, Demonstrated	>500,000 Hours
Cooling	30 cfm Airflow for Full Power
Immunity	EN61000-4-2; -3; -4; -5; -6; -8; -11
Altitude	10,000 feet

PHYSICAL SPECIFICATIONS

Case Dimensions	8.00 x 4.50 x 2.00" / 203.2 x 114.3 x 50.8mm
Weight	3.15 lbs. (1.43 kg.)
Vibration from 10 - 55Hz	1.0G Peak

(3 orthogonal axes @ 1 octave/min, 5 minute dwell @ 4 major resonances)

SAFETY STANDARDS

UL60950-1 2nd Ed., EN60950-1 2nd Ed., CB REPORT (IEC 60950-1), CE MARK (LVD)

EMI STANDARDS

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

OUTLINE DRAWING

CONNECTOR 1

Terminal Blocks, 9.5mm pitch

PIN1	LINE
PIN2	NEUTRAL
PIN3	GND

CONNECTOR 2 (single output)

Terminal Blocks, 9.5mm pitch

PIN1	V1
PIN2	V1
PIN3	V1
PIN4	V1
PIN5	RET
PIN6	RET
PIN7	RET
PIN8	RET

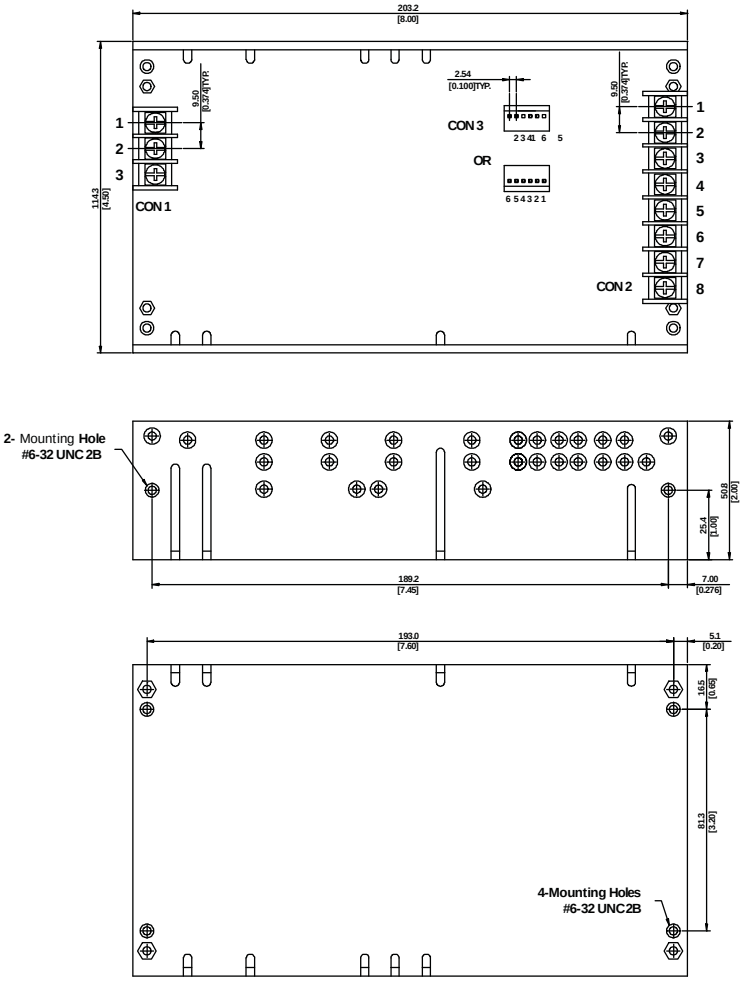
CONNECTOR 2 (multi-output)

PIN1	V1
PIN2	V1
PIN3	RET
PIN4	RET
PIN5	V2
PIN6	V3
PIN7	-V4
PIN8	+V4

CONNECTOR 3

MOLEX 22-27-2061 or equivalent
Mates with MOLEX 22-01-3067

PIN1	+SENSE
PIN2	-SENSE
PIN3	RC
PIN4	AC FAIL
PIN5	RTN
PIN6	PG



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