

25W Medical Power Adapters with Interchangeable Input Plugs

AHP2501 series



2.95" x 1.71" x 1.58"

- Wide Input Range of 80 to 275VAC, 47 to 63 Hz.
- Interchangeable Input Plugs
- IEC60601-1 3rd Edition, 2 MOPP
- Class II
- Efficiency Level V



Model Number	Output Watts	Output Voltage	Output Amps	Efficiency	Input NL Power Consumption	Total Regulation	Ripple & Noise
AHP2501-01	10.5	3.3VDC	3.18	65%	0.2 Watts	±5%	66mV p-p
AHP2501-02	16.5	5VDC	3.3	80%	0.3 Watts	±5%	50mV p-p
AHP2501-03	20	6VDC	3.3	82%	0.3 Watts	±5%	70mV p-p
AHP2501-04	22	9VDC	2.44	83%	0.3 Watts	±5%	90mV p-p
AHP2501-05	25	12VDC	2.08	84%	0.3 Watts	±5%	100mV p-p
AHP2501-06	25	15VDC	1.66	85%	0.3 Watts	±5%	100mV p-p
AHP2501-07	25	18VDC	1.38	85%	0.3 Watts	±5%	100mV p-p
AHP2501-08	25	24VDC	1.04	86%	0.3 Watts	±3%	100mV p-p
AHP2501-09	25	30VDC	0.83	86%	0.3 Watts	±3%	100mV p-p
AHP2501-10	25	36VDC	0.69	86%	0.3 Watts	±3%	100mV p-p
AHP2501-11	25	48VDC	0.52	86%	0.3 Watts	±3%	100mV p-p
AHP2501-12	25	55VDC	0.45	86%	0.3 Watts	±3%	100mV p-p

Note: One UL Type AC Plug is included. Additional country plugs sold separately". See the mechanical dimensions on page 3 for the styles offered and model numbers. Contact Astrodyne Sales for pricing

> ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458



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INPUT SPECIFICATIONS

Input Voltage Range	80-275 VAC (100-240V N	lominal)
	See Input Derate curve, F	
Frequency Range (Sine Wave)	47-63 Hz	
Input Current	Low Line (100VAC)	0.7A max.
	High Line (240VAC)	0.4A max.
Inrush Current, typ (Cold Start)	Low Line (100VAC)	50A max.
	High Line (240VAC)	100A max.
Protection Class	Double Insulated, Class I	I
Input NL Power Consumption	See Selection Chart	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection	n Chart
Output Power Range	0 to FL Rating	g
Total Regulation (Note 2)	See Selection	n Chart
Line Regulation, FL (Note 1)	± 1%, max.	
Over Load Protection*	110-150%, au	uto recover
Short Circuit Protection	Auto Recove	r
Transient Response	110Vin, FL	4mS
Temperature Coefficient	±0.04%/°C, t	ур
Ripple/Noise (Note 3)	See Selection	n Chart
Start Up / Hold Up Time	100Vin, FL	3S max. / 12mS min.

GENERAL SPECIFICATIONS

Input-Out Isolation	4000 VAC
Efficiency (FL, Nom. Input))	See Selection Chart
Safety	IEC60601-1 Edition3.1, ES60601-
	1:2005(R2012), CSAC22.2
	NO.60601-1:14, EN60601-1:2006/
	A1:2013, IEC60601-1-11

PHYSICAL SPECIFICATIONS

Size	2.95" x 1.71" x 1.58"
	(75 x 43.4 x 40.1mm)
Construction	Wallmount Style
Weight	7.05oz (200g)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +40°C (FL) *
	50% Load @ 70°C
	See Output Derate Curve, Fig. 2
Storage Temperature	-40 to +85°C, 10~95% RH *
Operating/Storage Humidity	0% to 95% RH *
Cooling	Free Air Convection
EMC	EN55011 (CISPR11),
	EN61000-3-2,-3 Class B
Surge Voltage	2kV, All Conditions
ESD Air	8kV, IEC61000-4-2
ESD Contact	6kV, IEC61000-4-2
MTBF MIL-HDBK-217F, 25°C	100K h
Operating Altitude	3000m
Vibration	5G, 10~500Hz, 10 min./1 cycle,
	60 min. each along X, Y, Z axes
Flammability Rating	UL94V-1

NOTES

- 1. Line Regulation defined as changing the input voltage $\pm 10\%$ from nominal line at rated load.
- 2. Total Regulation is defined by as changing the load ±40% from 60% rated load.
- 3. Ripple & Noise is measured by using a 20MHz bandwidth limited oscilloscope and terminating the output with a 0.47uF capacitor at rated load and nominal line.

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

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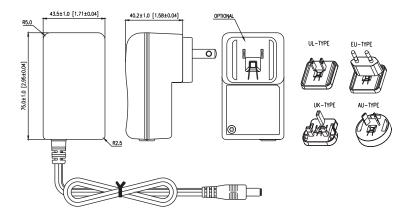
^{*} These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.





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MECHANICAL DIMENSIONS



DC OUTPUT CONNECTIONS

Coaxial Plug: -Vout -Vou

5.5mm outer diameter 2.1mm inner diameter, female 11mm length, center "+"

Dimensions are in mm [inches]

AHP2501-01~04 Output Cord Length 48", 18AWG AHP2501-05~09 Output Cord Length 48", 20AWG AHP2501-110~112 Output Cord Length 48", 22AWG

The Regulation and Efficiency will change if output cable is modified.

DERATE CURVES

