Astrodyne TDI
Now you have power.

12W Medical Grade Wallmount Switching Power Adapters

AMP1201 series



2.56" x 2.17" x 1.40"

- Wide Universal 80-275VAC Input
- UL/EN/IEC60601-1 3rd Edition Approvals; 2MOPP
- Over Voltage & Over Load Protection
- 4000VAC Isolation
- Class II, 2 Prong U.S. Input
- Efficiency Level V

Model Number	Output Watts	Output Voltage	Output Amps	Total Regulation (Note 2)	Efficiency
AMP1201-02	10	5VDC	2.0	± 5%	74%
AMP1201-03	12	6VDC	2.0	± 5%	76%
AMP1201-04	12	9VDC	1.33	± 5%	79%
AMP1201-05	12	12VDC	1.0	± 5%	79%
AMP1201-06	12	15VDC	0.8	± 5%	81%
AMP1201-07	12	18VDC	0.66	± 3%	81%
AMP1201-08	12	24VDC	0.5	± 3%	81%

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 Nominal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (100VAC)	0.29A max.
	High Line (240VAC)	0.16A max.
Inrush Current, typ (Cold Start)	Low Line (100VAC)	50A max.
	High Line (230VAC)	100A max.
Leakage Current	<100 uA	
Protection Class	Double Insulated, Class II	
No Load Power Consumption	0.3W	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Output Power Range	0 to FL Rating	
Line Regulation (FL) (Note 1)	± 1%, max.	
Over Voltage Protection	112-132%	
Over Load Protection	110-150% Auto-Recovery	
Transient Response	110Vin, FL	4mS
Temperature Coefficient	±0.04%/°C, typ	
Ripple/Noise (Note 3)	FL, 90Vin	1% Pk-Pk max.
Short Circuit Protection	Continuous, self-recovering *	
Start Up / Hold Up Time	100Vin, FL	2S max. / 16mS min.

GENERAL SPECIFICATIONS

Input-Out Isolation	4000 VAC
Efficiency (FL, Nom. Vin)	See Selection Chart
Safety	ANSI/AAMI ES 60601-1:2005
	(UL/cUL/EN/IEC 3rd Edition)

PHYSICAL SPECIFICATIONS

Size	2.56" x 2.17" x 1.40"
	(65x55x35.6mm)
Construction	Wallmount Style
Weight	5.64oz (160g)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10 to +50°C (FL) *
	50% Load @ 70°C
	(See Derate Curve Next Page)
Cooling	Free Air Convection
Flammability Rating	UL94V-1
Storage Temperature	-40 to +85°C (10-95% RH) *
Operating/Storage Humidity	0% to 95%, non-cond *
EMC	Compliance to EN55011 (CISPR11),
	EN61000-3-2,-3 Class B
MTBF (MIL-HDBK-217F, 25 °C)	100,000 Hrs min.
Efficiency Level	V
Surge Voltage	2kV min.
ESD Air:	IEC61000-4-2, 8kV min.
Contact:	IEC61000-4-2, 6kV min.
Operating Altitude	3000M max.
Vibration	10 ~ 500Hz, 10min./1cycle, 60min.
	each along X, Y, Z axes, 5G min

NOTES

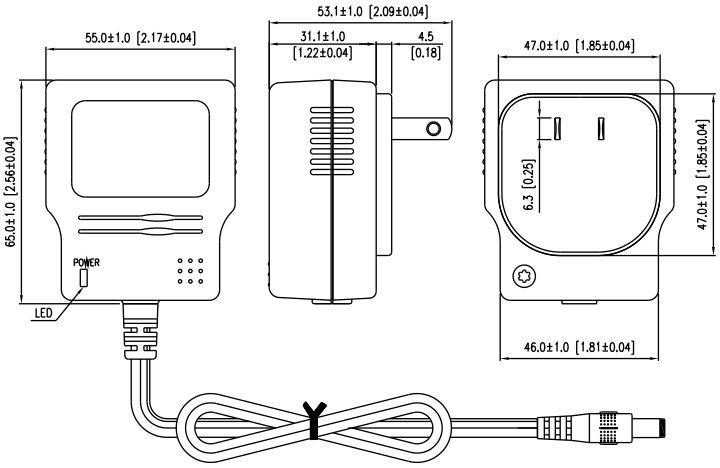
1. Line Regulation defined as changing the input voltage ±10% from nominal line at rated load.
2. Total Regulation is defined by as changing the load ±40% from 60% rated load.
3. Ripple & Noise is measured by using a 20MHz bandwidth limited oscilloscope and terminating the output with a 0.47uF capacitor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

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

* 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.

MECHANICAL DIMENSIONS

Dimensions Are In mm.

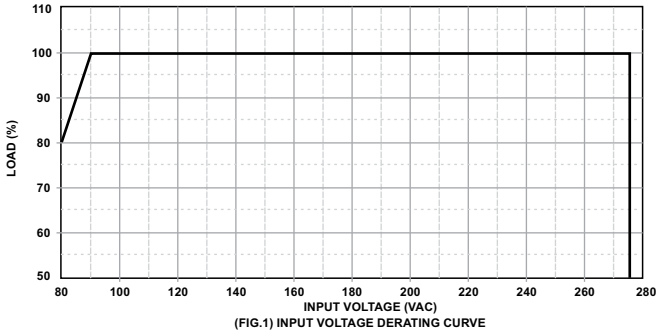


DC OUTPUT CONNECTIONS

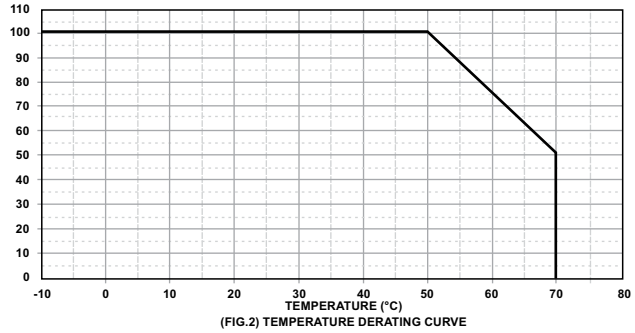
Coaxial Plug: -Vout +Vout

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

DERATE CURVES



(FIG.1) INPUT VOLTAGE DERATING CURVE



(FIG.2) TEMPERATURE DERATING CURVE