



4.11" x 1.65" x 1.22"

- Universal 90-264VAC Input
- 3 Input Connection Options
- Single Outputs from 5 to 36VDC
- 4000V Isolation
- LPS Efficiency Level V
- ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd Edition)
- EN 60601-1:2006 (TUV/T-mark 3rd Edition)



Model Number	Output Watts	Output Voltage	Output Amps	Total Regulation (See Notes)
*AMP1601-02(A, B or C)	13	5V	2.6A	5%
*AMP1601-03(A, B or C)	13	7V	1.85A	5%
*AMP1601-04(A, B or C)	15	9V	1.66A	5%
*AMP1601-05(A, B or C)	15	12V	1.25A	5%
*AMP1601-06(A, B or C)	15	15V	0.93A	5%
*AMP1601-07(A, B or C)	15	18V	0.83A	5%
*AMP1601-08(A, B or C)	15	24V	0.62A	3%
*AMP1601-09(A, B or C)	15	30V	0.5A	3%
*AMP1601-10(A, B or C)	15	36V	0.41A	3%

**Notes:**

\*Denotes a choice of AC input connectors (A, B or C option). Please see Mechanical Dimensions. If not denoted, option "A" IEC-320-C14 input connector is used.

Low cost 3 Wire IEC320/C13 (Part Number ACCRD-C13), IEC320/C5 (Part Number ACCRD-C5) and 2 Wire IEC320/C7 (Part Number ACCRD-C7) Input Power Cords are available for these products. Inquire to the Astrodyne Sales Depart.

On AMP1601-02, 03 and 04 a 16AWG/4FT output cable is required to meet published Regulation and Efficiency specifications as well as LPS Efficiency levels. 18AWG/4FT is required for all other models. Modifying these cables will potentially change and/or waive said specifications and Efficiency levels.

**INPUT SPECIFICATIONS**

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current Max.	Low Line (115VAC)	0.33A
	High Line (230VAC)	0.18A
No Load Power Consumption	0.3W @ 230VAC	
Inrush Current, typ (Cold Start)	Low Line (115VAC)	23A max.
	High Line (230VAC)	45A max.
Leakage Current	0.3mA MAX.	
	@ 240 VAC, FL	

**OUTPUT SPECIFICATIONS**

Voltage and Current	See Selection Charts	
Output Power Range	0 to FL Rating	
Load Regulation (230Vin)	± 5%, max.	
Line Regulation	± 1%, max.	
Transient Response	100Vin, FL to 1/2L	4mS
Temperature Coefficient	±0.04%/°C, typ	
Ripple/Noise	FL, 90Vin	1% Pk-Pk
Over Voltage Protection	112-132%	
Over Current Protection	110-150%	
Short Circuit Protection	Continuous, self-recovering *	
Thermal Shutdown	-20 to 125°C	
Start Up / Hold Up Time	100Vin, FL	1S max. / 10 mS min.

**GENERAL SPECIFICATIONS**

Input-Out Isolation	5656VDC (4000VAC)
Isolation Resistance	50 MΩ min.
Efficiency (FL, 230Vin)	79%, typ
Safety	ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd Edition)
	EN 60601-1:2006 (TUV/T-mark 3rd Edition)

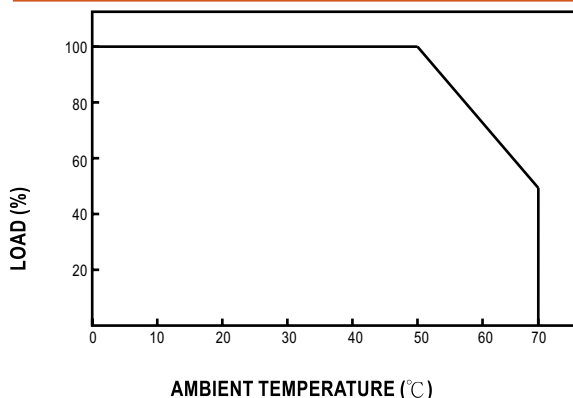
**PHYSICAL SPECIFICATIONS**

Size	4.11" x 1.65" x 1.22"
Construction	Desktop Style
Weight	6.0oz (170g)

**ENVIRONMENTAL SPECIFICATIONS**

Oper. Temperature	0 to +50°C (FL) *
	50% Load @ 70°C (See Derate Curve)
Storage Temperature	-40 to +85°C *
Humidity	0% to 95%*
EMC 110Vin:	FCC Part 15 Class B
	EN55022B
MTBF	100,000 Hrs
Efficiency Level	V

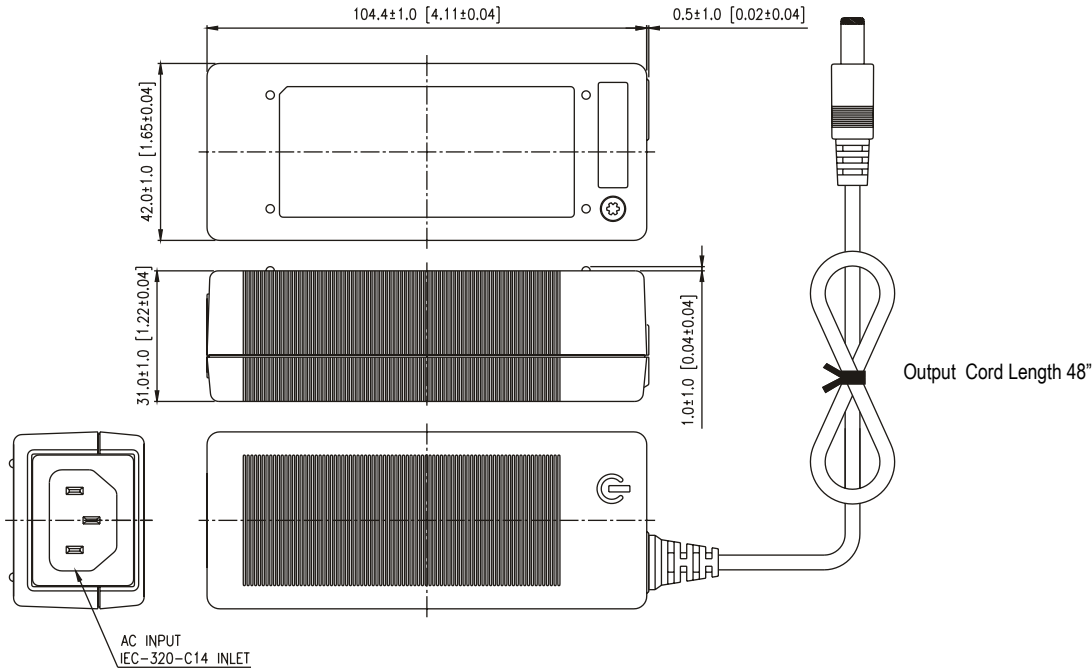
**DERATE CURVE**



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 warranted nor implied.

**MECHANICAL DIMENSIONS - AMP1601-XXA**



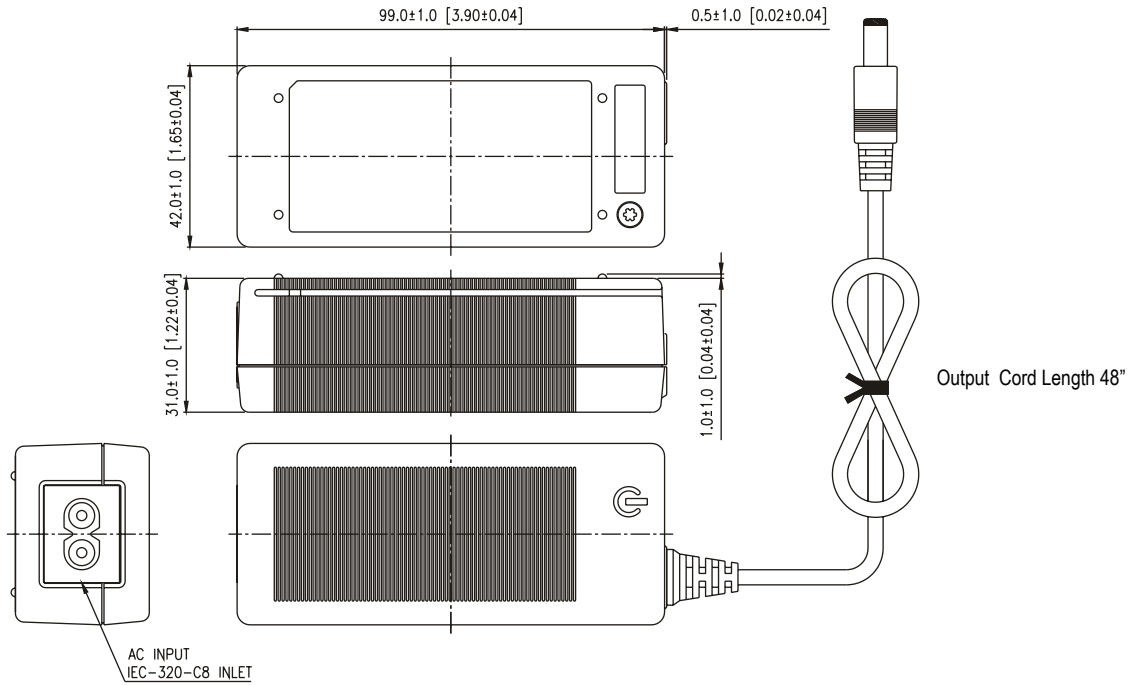
**DC OUTPUT CONNECTIONS**

**Coaxial Plug**

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



**MECHANICAL DIMENSIONS - AMP1601-XXB**



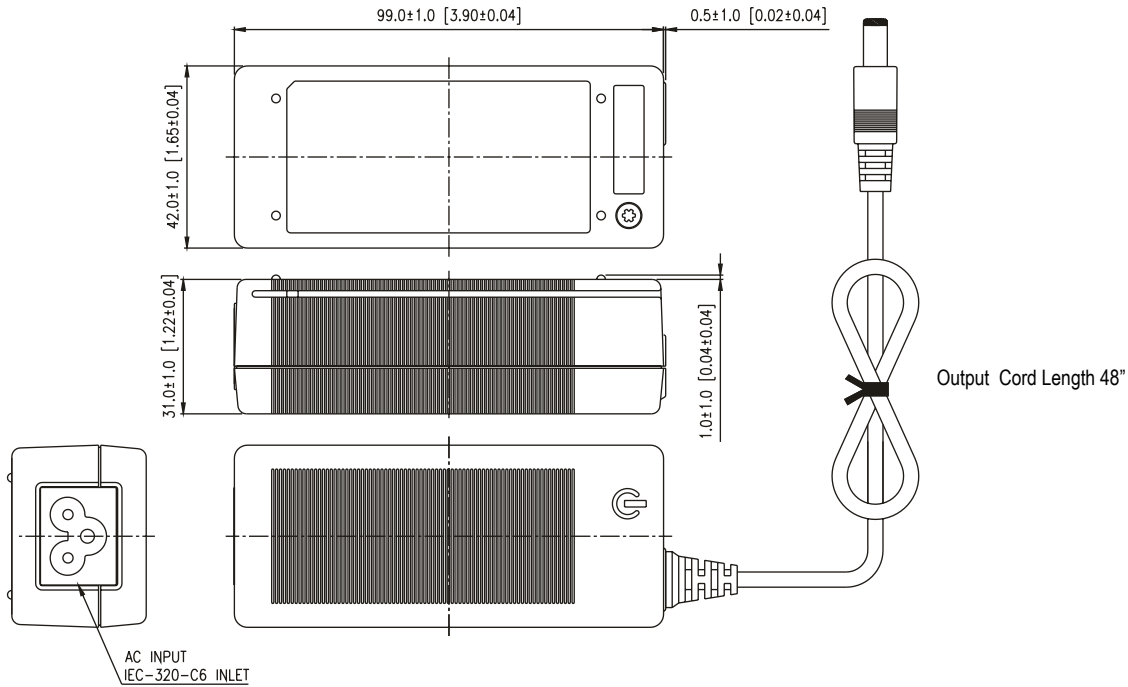
**DC OUTPUT CONNECTIONS**

**Coaxial Plug**

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



**MECHANICAL DIMENSIONS - AMP1601-XXC**



**DC OUTPUT CONNECTIONS**

**Coaxial Plug**

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

