



- Universal 90-264VAC Input
- 5 Input Connection Options
- Single Outputs from 3.3 to 48VDC
- 3000V Isolation
- Splash Proof Case
- LPS Efficiency Level IV or V



Model Number	Output Watts	Output Voltage	Output Amps	Total Regulation
*SPU16(A, B, C, D or E)-101	8.25	3.3V	2.5A	7%
*SPU16(A, B, C, D or E)-102	12	5V	2.4A	5%
*SPU16(A, B, C, D or E)-103	12	6V	2.0A	5%
*SPU16(A, B, C, D or E)-104	15	10V	1.5A	5%
*SPU16(A, B, C, D or E)-105	15	12V	1.25A	5%
*SPU16(A, B, C, D or E)-106	15	15V	1.0A	5%
*SPU16(A, B, C, D or E)-107	15	18V	0.83A	5%
*SPU16(A, B, C, D or E)-108	15	24V	0.62A	5%
*SPU16(A, B, C, D or E)-109	15	30V	0.5A	5%
*SPU16(A, B, C, D or E)-110	15	36V	0.41A	3%
*SPU16(A, B, C, D or E)-111	15	48V	0.31A	3%

* Note:

The Asterisk * denotes a choice of AC input connectors (A, B, C, D or E option; i.e. SPU16E-101). Please see Mechanical Dimensions. If not denoted, option "A" IEC-320-C14 connector is used.

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

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (100-240V nominal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (100VAC)	0.4A
	High Line (240VAC)	0.26A
Inrush Current, typ (Cold Start)	Low Line (115VAC)	15A max.
	High Line (230VAC)	30A max.
Leakage Current	0.75mA max. @ 240 VAC, 60 Hz.	
No Load Power Consumption	0.3W max., 230VAC Input	

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart	
Output Power Range	0 to FL Rating	
Load Regulation (230Vin)	± 3%, typ.	
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 max.	
Short Circuit Protection	Continuous, self-recovering *	
Start Up / Hold Up Time	100Vin, FL	2S max. / 8 mS min.

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.

GENERAL SPECIFICATIONS

Isolation	I/P - O/P: 4242 VDC
	I/P - GND: 2594 VDC
Isolation Resistance	50 MΩ min., Test Voltage=500VDC
Efficiency (FL, 230Vin)	75~85%, min.
Switching Frequency	89 KHz
Safety	(c)UL60950-1 2nd Edition, EN60950-1 2nd Edition

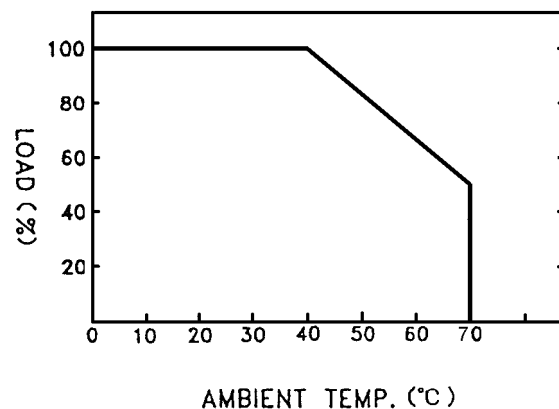
PHYSICAL SPECIFICATIONS

Size	3.58" x 1.5" x 1.42"
Construction	Desktop Style
Weight	5.8oz (165g)

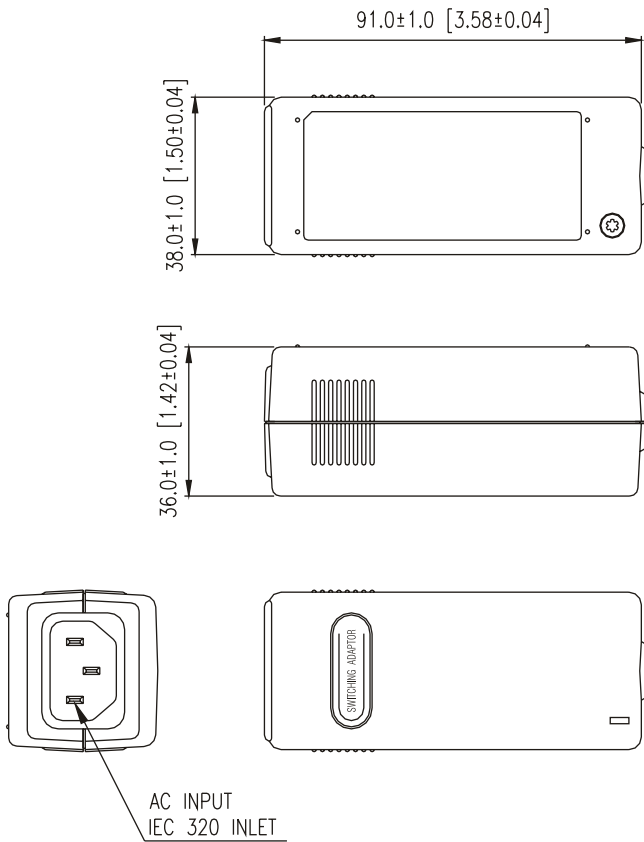
ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +40°C (FL) *	
	50% Load @ 70°C (See Derate Curve)	
Storage Temperature	-40 to +85°C *	
Relative Humidity	0% to 95%, non-cond *	
EMC	110Vin:	FCC Part 15 Class B
	220Vin:	CISPR-22 Class B
MTBF (MIL-HDBK-217F, 25°C)	100,000 Hrs	
Efficiency Level	SPU16x-101: IV	
	All others: V	

DERATE CURVE



MECHANICAL DIMENSIONS - SPU16A-XXX (IEC-320-C14 3 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

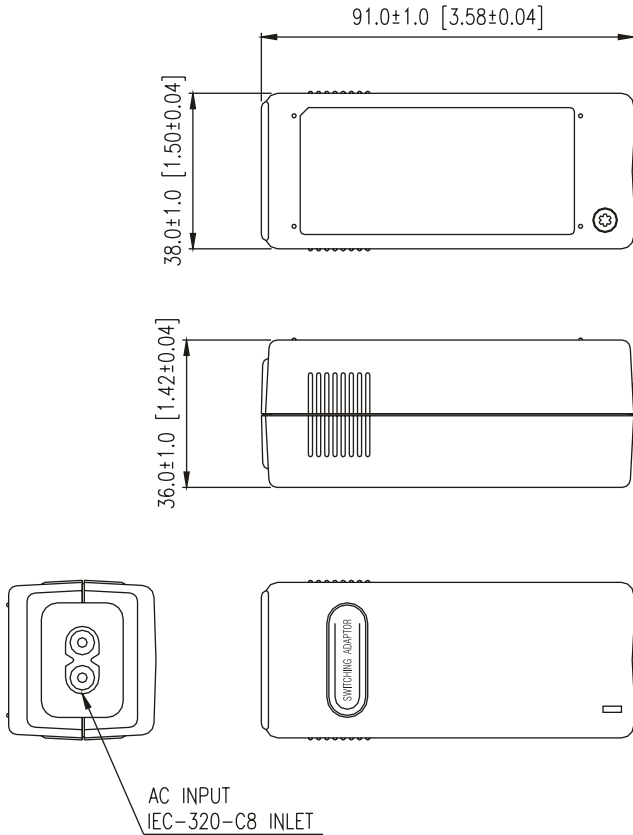
5.5mm outer diameter
2.1mm inner diameter, female
11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16B-XXX (IEC-320-C8 2 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

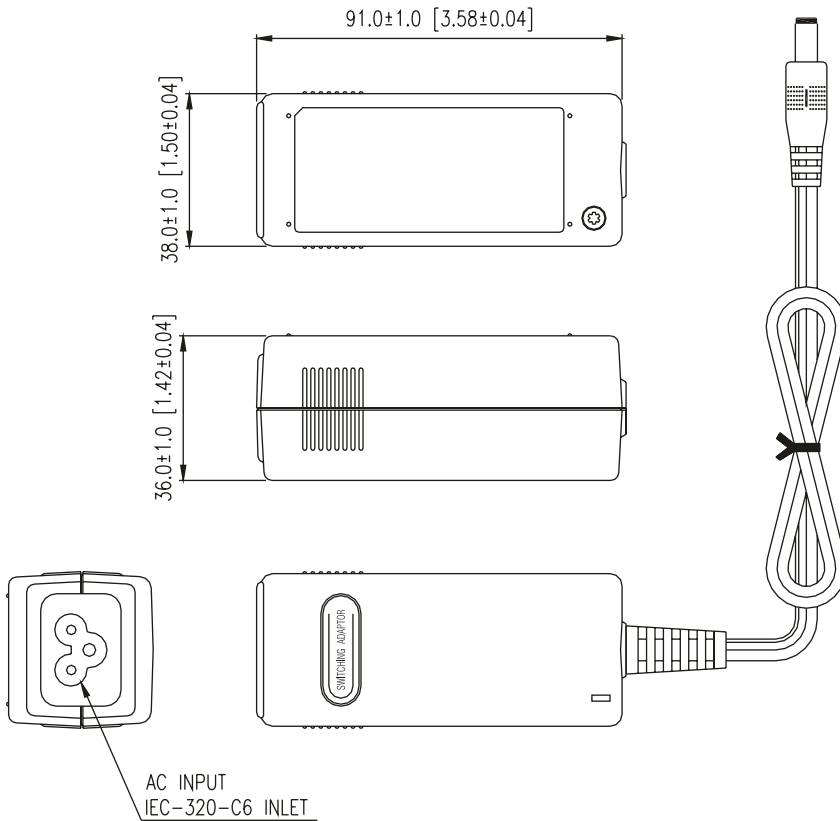
5.5mm outer diameter
 2.1mm inner diameter, female
 11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16C-XXX (IEC-320-C6 3 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

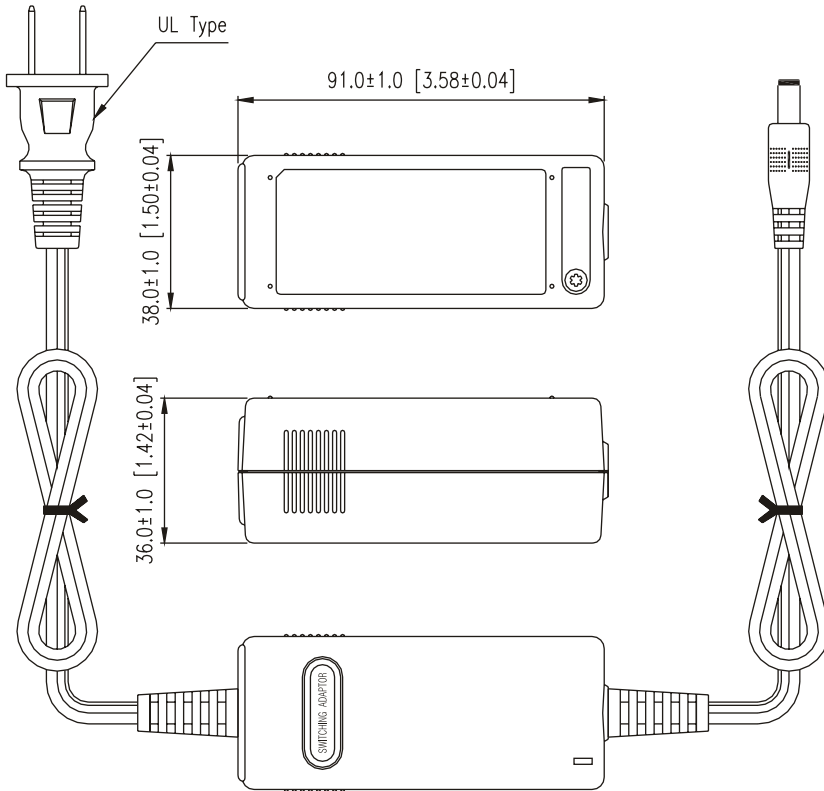
5.5mm outer diameter
2.1mm inner diameter, female
11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16D-XXX (IEC-320 2 PRONG MOLDED INPUT CORD)



DC OUTPUT CONNECTIONS

Coaxial Plug

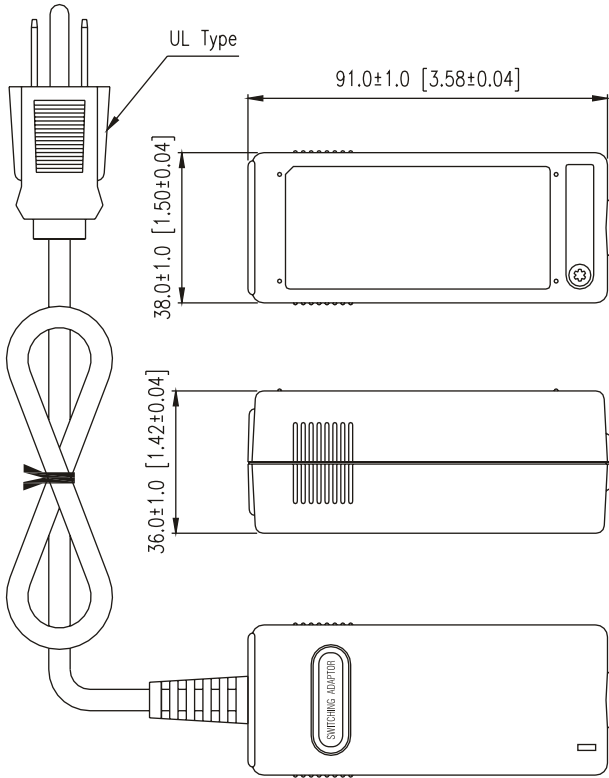
5.5mm outer diameter
 2.1mm inner diameter, female
 11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16E-XXX (IEC-320 3 PRONG MOLDED INPUT CORD)



DC OUTPUT CONNECTIONS

Coaxial Plug

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



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG