



4.65" x 1.85" x 1.19"

- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Single Outputs from 12 to 48VDC
- 4242VDC Isolation
- Class I
- Efficiency Level VI, CoCV5



Model Number	Output Watts	Output Volts	Output Amps	Total Regulation
SPU61A-105	60	12V	5A	5%
SPU61A-106	60	15V	4A	5%
SPU61A-107	60	18V	3.33A	5%
SPU61A-108	60	24V	2.5A	3%
SPU61A-109	60	30V	2A	3%
SPU61A-110	60	36V	1.66A	3%
SPU61A-111	60	48V	1.25A	3%

Note: To order CoCV5 (tier2) models, please contact sales.

## 60W Desktop Switching Power Supplies

## SPU61A series

### INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (100-240 nom.)
Frequency Range	47-63 Hz
Input Current	Low Line (100VAC) 1.45A
	High Line (240VAC) 1.45A
Inrush Current, typ (Cold Start)	High Line (240VAC) 105A max.
Leakage Current	0.75mA MAX. @ 240 VAC, FL, 60 Hz
No Load Power Consumption	0.5W @ 230VAC Input

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Charts
Output Power Range	0 to FL Rating
Load Regulation (Note 2)	+/- 3-5%, max. (230Vin)
Line Regulation (Note1)	+/- 1%, max.
Transient Response	100Vin, FL to 1/2L 4mS
Temperature Coefficient	+/-0.04%/°C, typ
Ripple/Noise (Note 3)	FL, 90Vin 100mV Pk-Pk
Over Voltage Protection	112-132% *
Over Current Protection	110-150% * Auto Recovery
Short Circuit Protection	Auto Recovery
Start Up / Hold Up Time	100Vin, FL 3S max. / 10mS min.

### GENERAL SPECIFICATIONS

Input-Out Isolation	4242 VDC
Input-Ground Isolation	2652 VDC
Isolation Resistance	50 Mohm min.
Efficiency (FL, 230Vin)	87%, min.
Safety	UL/c-UL(UL 60950-1:2nd Edition), TUV/GS(EN 60950-1:2nd Edition)

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

### PHYSICAL SPECIFICATIONS

Size	4.65" x 1.85" x 1.19"
Construction	Desktop Style
Weight	12oz (340g)
Flammability Rating	UL94V-1

### ENVIRONMENTAL SPECIFICATIONS

Cooling	Free Air Convection
Oper. Temperature	0 to +40°C (FL) *
	50% Load @ 70°C (See Derating Curve)
Storage Temperature	-40 to +85°C *
Operating/Storage Humidity	0% to 95%, non-cond *
EMC	Compliance to EN55022 (CISPR22)
MTBF (MIL-HDBK-217F)	100,000 Hrs
Surge Voltage	L-N: 1kV, L-PE & N-PE: 2kV
ESD - Air	IEC61000-4-2, 8kV
ESD - Contact	IEC61000-4-2, 6kV
Operating Altitude (Elevation)	3000m
Vibration	5G, 10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes

### NOTES

1. Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
2. Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load.
3. Ripple & noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47uF capacitor at rated load and nominal line.

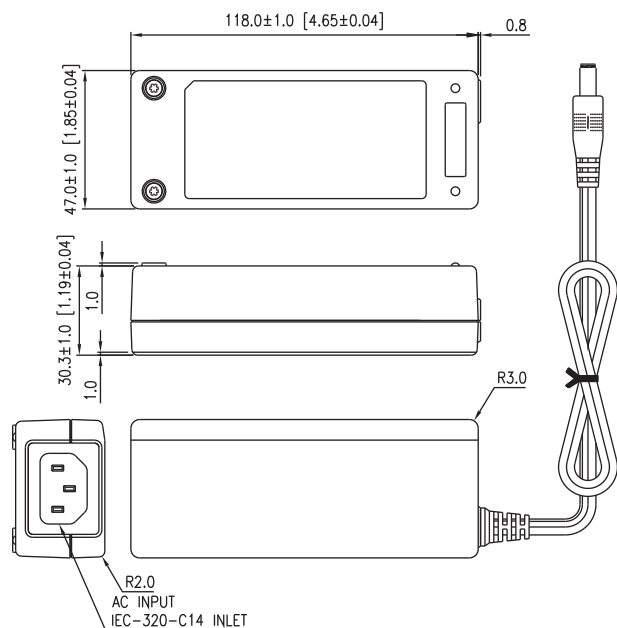
*All specifications are typical at nominal input, full load, and 25°C unless otherwise noted*

\* 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 warranted nor implied.

## 60W Desktop Switching Power Supplies

## SPU61A series

### MECHANICAL DIMENSIONS



### COAXIAL PLUG:

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

-Vout —  +Vout

SPU61A-105 requires the use of AWG#16 / 4FT output cable.  
SPU61A-106~109 requires the use of AWG#18 / 4FT output cable.  
Modifying the Output Cord will effect Regulation and Efficiency

### DERATE CURVES

