



25 Watt Desktop Switching Power Adapters

**SPU25A** series



4.11" x 1.65" x 1.22"

- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Single Outputs from 5 to 48VDC
- LPS Efficiency Level IV or V
- Splash Proof Case



<b>Model Number</b>	<b>Output Watts</b>	<b>Output Voltage</b>	<b>Output Amps</b>	<b>Total Regulation</b>
SPU25A-102	16.5	5V	3.3A	5%
SPU25A-103	20	6V	3.33A	5%
SPU25A-104	22	10V	2.2A	5%
SPU25A-105	25	12V	2.08A	5%
SPU25A-106	25	15V	1.66A	5%
SPU25A-107	25	18V	1.38A	5%
SPU25A-108	25	24V	1.04A	3%
SPU25A-109	25	30V	0.83A	3%
SPU25A-110	25	36V	0.69A	3%
SPU25A-111	25	48V	0.52A	3%



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### INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current Max.	Low Line (115VAC)	0.4A
	High Line (230VAC)	0.25A
Power Consumption No Load	240VAC	0.5W max.
Inrush Current, typ (Cold Start)	Low Line (115VAC)	15A max.
	High Line (230VAC)	30A max.
Leakage Current	0.75mA 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 Max.	100Vin, FL to 1/2L	4mS
Temperature Coefficient	+/-0.04%/°C, typ	
Ripple/Noise	FL, 90Vin	1% Pk-Pk, max.
Over Current Protection	110-150% *	
Hold Up Time	110Vin, FL	12-16mS max.
Start Up	100Vin, FL	0.5S max.

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.

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.

**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

### GENERAL SPECIFICATIONS

Input-Out Isolation	3000 VAC
Input-Ground Isolation	1500 VAC
Isolation Resistance	50 MΩ min.
Efficiency (FL, 230Vin)	85%, typ.
Safety	(c)UL60950-1, EN60950-1

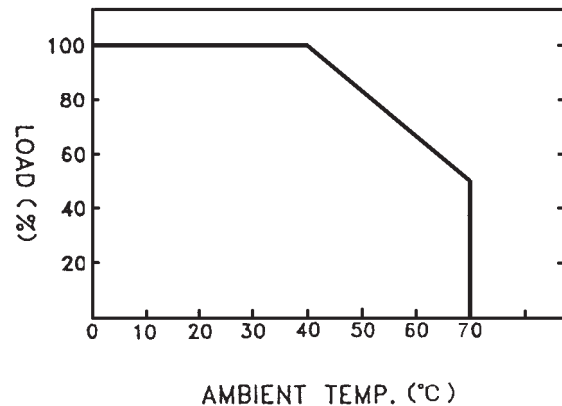
### PHYSICAL SPECIFICATIONS

Size	4.11" x 1.65" x 1.22"
Construction	Desktop Style
Weight	6oz (170g)

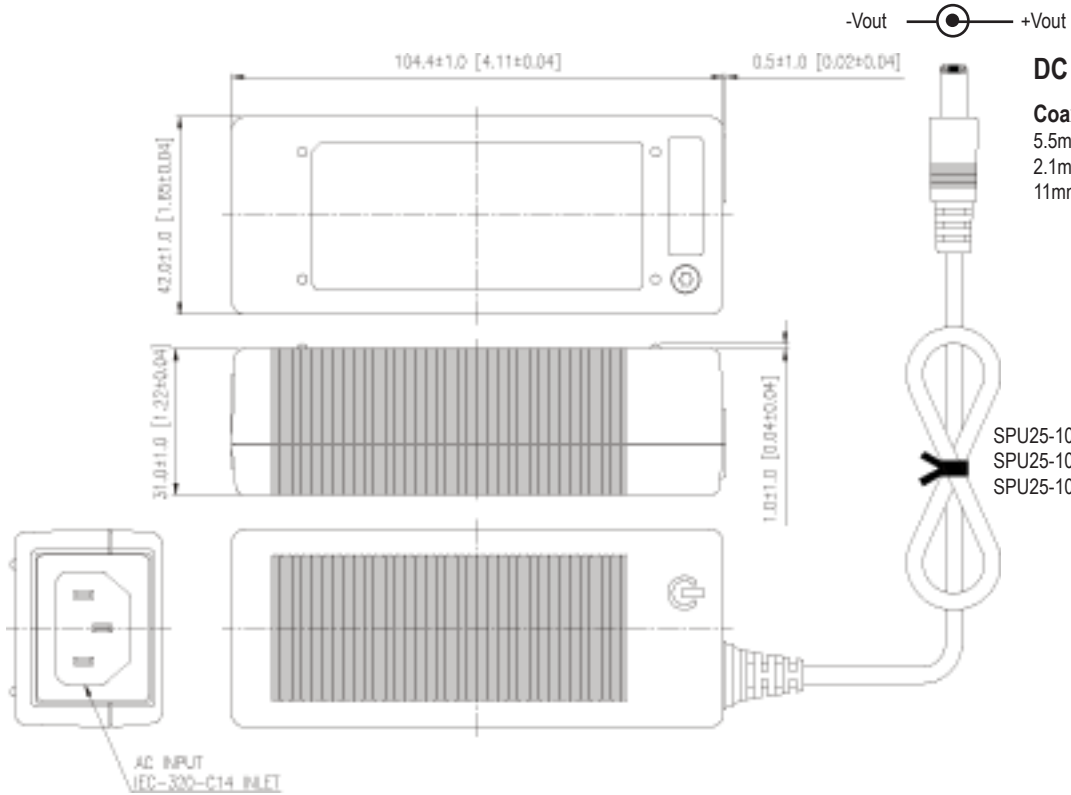
### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +40°C (FL) *	
	50% Load @ 70°C (See Derate Curve)	
Storage Temperature	-40 to +85°C *	
Relative Humidity	5% to 95%, non-cond *	
EMC	110Vin:	FCC Part 15 Class B
	220Vin:	CISPR-22 Class B
MTBF	300,000 Hrs	
Efficiency Level	SPU25A-102-104: IV	
	SPU25A-105~111: V	

### DERATE CURVE



### MECHANICAL DIMENSIONS



### DC OUTPUT CONNECTIONS

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

SPU25-102~103 Output Cord Length 48" 16AWG  
 SPU25-105 Output Cord Length 48" 18 AWG  
 SPU25-105~111 Output Cord Length 72" 18 AWG