

# Astrodyne

80W Desktop Switching Power Supplies with PFC

**SPU80** series



5.75" x 1.69" x 3.0"

- 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Power Factor Correction
- LPS Efficiency Level V
- Splash Proof Case



<b>Model Number</b>	<b>Output Volts</b>	<b>Output Amps</b>	<b>Total Regulation</b>	<b>Output Connector</b>
SPU80-105	12V	6.66A	5%	5 Pin DIN
SPU80-106	15V	5.33A	5%	5 Pin DIN
SPU80-107	18V	4.44A	5%	2.1mm Coax.
SPU80-108	24V	3.33A	5%	2.1mm Coax.
SPU80-109	30V	2.66A	5%	2.1mm Coax.
SPU80-110	36V	2.22A	5%	2.1mm Coax.
SPU80-111	48V	1.66A	5%	2.1mm Coax.

### INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC	
Frequency Range	47-63 Hz	
Power Factor Correction	0.97, typ.	
Input Current	Low Line (115VAC)	1.07A
	High Line (230VAC)	0.5A
Leakage Current	.075mA, max.	
Inrush Current, typ (Cold Start)	Low Line (115VAC)	15A max.
	High Line (230VAC)	30A max.

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Charts	
Output Power Range	0 to FL Rating	
Load Regulation (230Vin)	+/- 7%, 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, max.
Over Voltage Protection	112-132% *	
Over Current Protection	110-150% *	
Start Up / Hold Up Time	100Vin, FL	2S max. / 16mS min.

### GENERAL SPECIFICATIONS

Input-Out Isolation	3000 VAC
Input-Ground Isolation	1500VAC
Isolation Resistance	50MΩ min.
Efficiency (FL, 230Vin)	83%, typ
Safety	(c)UL60950-1, EN60950-1

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.

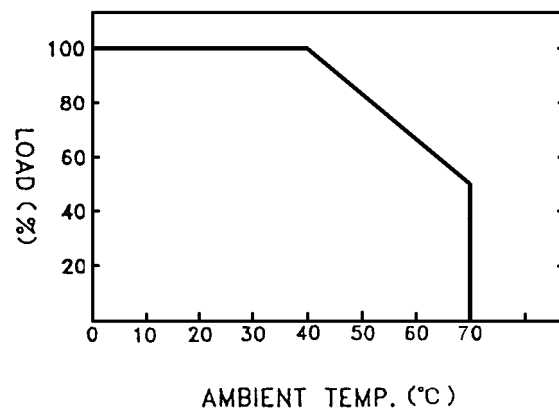
### PHYSICAL SPECIFICATIONS

Size	5.75" x 1.69" x 3.0"
Construction	Desktop Style
Weight	1.54 lb (700g)

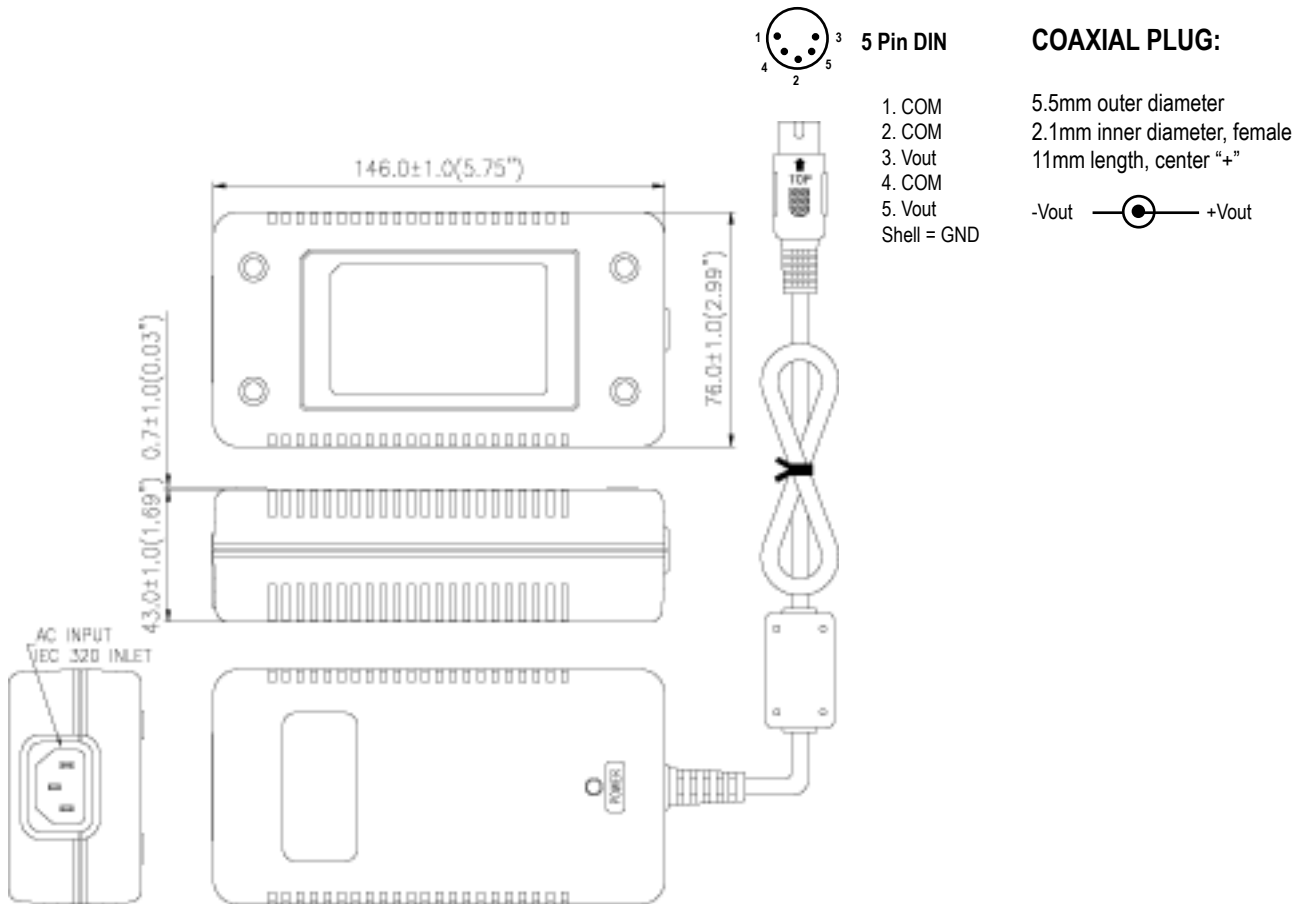
### ENVIRONMENTAL SPECIFICATIONS

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
Efficiency Level	V

### DERATE CURVE



### MECHANICAL DIMENSIONS



SPU80-105 is required to use AWG#18×3C+AWG#20×2C/4FT output cable.  
 SPU80-106 is required to use AWG#16×2C/4FT output cable.  
 SPU80-107 is required to use AWG#16×2C/6FT output cable.  
 SPU80-108~109 are required to use AWG#18×2C/6FT output cable.  
 SPU80-110~111 are required to use AWG#20×2C/6FT output cable.  
 The electrical characteristics will be changed by modified output cable.