ASTRODYNE

40-60 Watt Desktop Switching Power Adapters

SPU50 series



3"W x 5.75"L x1.7"H

- Universal 85-265VAC Input
- IEC-320-C14 Input Receptacle
- Single Outputs from 5 to 48VDC
- Over Voltage and Overload Protection
- Splash Proof Case

Model Number	Output Watts	Output Voltage	Output Amps	Total Regulation	Output Connector
SPU50A-1	40	5V	8A	5%	DIN
SPU50A-1-1	45	6V	7.5A	5%	DIN
SPU50A-3	50	12V	4.16A	5%	Coax
SPU50A-4	50	15V	3.33A	5%	Coax
SPU50A-5	50	18V	2.78A	5%	Coax
SPU50A-6	50	24V	2.1A	5%	Coax
SPU50A-7	50	30V	1.67A	5%	Coax
SPU50A-8	50	36V	1.4A	5%	Coax
SPU50A-9	50	48V	1.04A	5%	Coax
SPU50-1	50	5V	10A	5%	DIN
SPU50-1-1	55	6V	9.2A	5%	DIN
SPU50-3	60	12V	5A	5%	Coax
SPU50-4	60	15V	4A	5%	Coax
SPU50-5	60	18V	3.33A	5%	Coax
SPU50-6	60	24V	2.5A	5%	Coax
SPU50-7	60	30V	2A	5%	Coax
SPU50-8	60	36V	1.67A	5%	Coax
SPU50-9	60	48V	1.25A	5%	Coax

300 Myles Standish Blvd., Taunton, MA 02780
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INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (115VAC)	1.6A
	High Line (230VAC)	1.0A
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	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% *	
Over Voltage Protection	112-132% *	
Start Up Time	100Vin, FL	2S max.
Hold Up Time	100Vin, FL	16mS min.

GENERAL SPECIFICATIONS

Input-Out Isolation	3000 VAC
Input-Ground Isolation	1500VAC
Isolation Resistance	50 Mohm min.
Efficiency (FL, 230Vin)	83%, typ
Switching Frequency	
SPU50x-1~8	120 KHz
SPU50X-9	99 KHz
Safety	(c)UL1950, EN60950

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 warranteed nor implied.

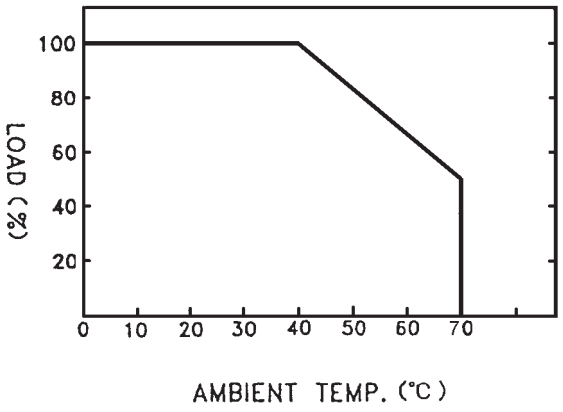
PHYSICAL SPECIFICATIONS

Size	5.75" x 3" x 1.7"
Construction	Desktop Style
Weight	19.4oz (550g)

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	100,000 Hrs	

DERATE CURVE



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

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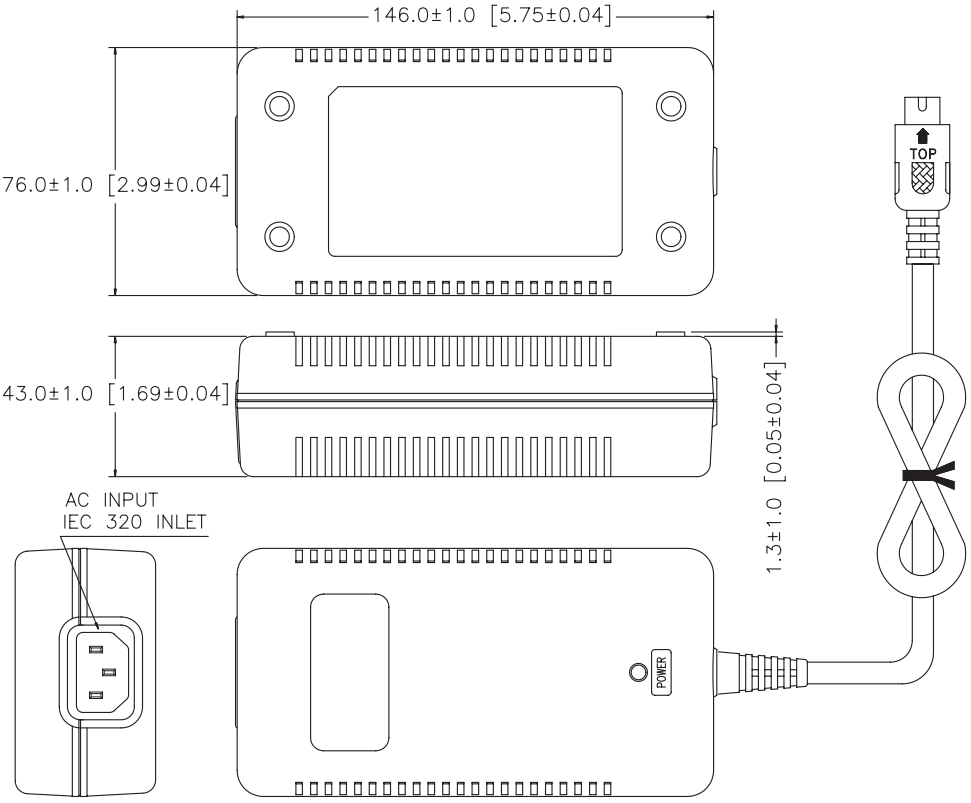
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MECHANICAL DIMENSIONS



DC OUTPUT CONNECTIONS

Coaxial Plug (Single Output Models)



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

Output Cord Length 72" typ.

5 Pin DIN

1. COM
2. COM
3. Vout
4. COM
5. Vout

Shell = GND



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