



- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Single Outputs from 5 to 48VDC
- Class I
- Efficiency Level VI



Model Number	Output Watts	Output Volts	Output Amps	Total Regulation
SPU41-102	25	5V	5A	5%
SPU41-103	30	6V	5A	5%
SPU41-104	35	10V	3.5A	5%
SPU41-105	40	12V	3.33A	5%
SPU41-106	40	15V	2.66A	5%
SPU41-107	40	18V	2.22A	5%
SPU41-108	40	24V	1.66A	3%
SPU41-109	40	30V	1.33A	3%
SPU41-110	40	36V	1.11A	2%
SPU41-111	40	48V	0.83A	2%

40W Desktop Switching Power Supplies

SPU41 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (100VAC)	0.93A
	High Line (240VAC)	0.38A
Inrush Current, typ (Cold Start)	Low Line (100VAC)	45A max.
	High Line (240VAC)	108A 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. 10~90% load change	
Line Regulation	+/- 1%, max. FL, 100~120VAC	
Transient Response	100Vin, FL to 1/2L	4ms max.
Temperature Coefficient	+/-0.04%/°C, max	
Ripple/Noise	FL, 90Vin	1% Pk-Pk, max.
Over Load Protection	110-150% *	Auto-recover
Start Up / Hold Up Time	100Vin, FL	2.8s max. / 12ms min.

GENERAL SPECIFICATIONS

Input-Out Isolation	4242 VDC	
Input-Ground Isolation	2121 VDC	
Isolation Resistance	50 Mohm min.	
Efficiency (FL, 230Vin)	87%, typ	Level VI
No-Load Power Consumption	0.1W Typ.	
Safety	(c)UL60950-1	

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.

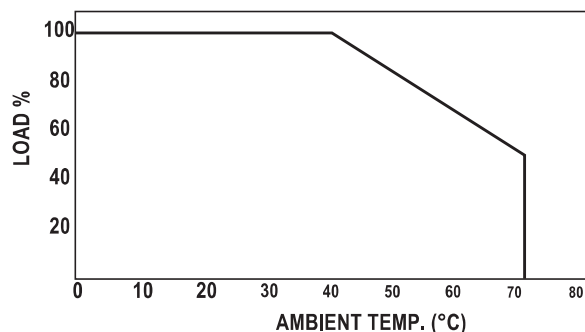
PHYSICAL SPECIFICATIONS

Size	107 x 47 x 30.1mm (4.21" x 1.85" x 1.19")
Construction	Desktop Style
Weight	9.35~9.88oz (265~280g)

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	100k Hrs	MIL-HDBK-217F (25°C)
Operating Altitude	5,000m	

DERATE CURVE



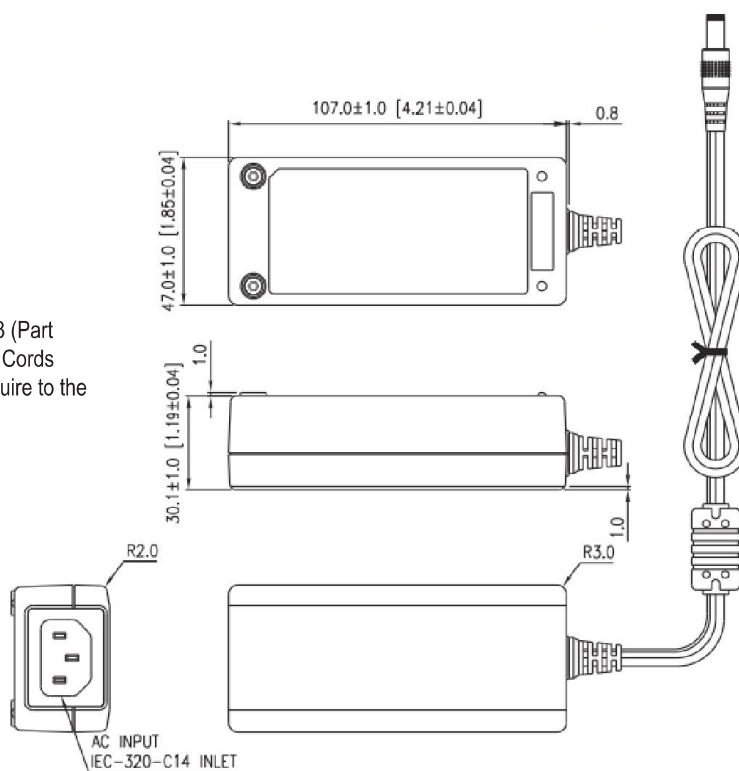
MECHANICAL DIMENSIONS: (UNIT: mm)

COAXIAL PLUG:

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

-Vout —  +Vout

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.



SPU41-102~104 14AWG, 4' Long
SPU41-105~107 18AWG, 4' Long
SPU41-108~111 18AWG, 6' Long