

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
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Custom engineering
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Astrodyne TDI
Now you have power.

45 Watt Desktop Switching Power Adapters

SPU45 series



5.75" x 3" x 1.7"

- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Dual and Triple Outputs
- 4000V Isolation
- Efficiency Level VI (Dual/Triple Output), Level V(Single Output)

Model Number	Output Watts	Output Voltage	Output Amps	Min. Load	Total Regulation	Output Connector
SINGLE OUTPUT						
SPU45-101	26.4	3.3V	8A	0	5%	DIN
SPU45-102	40	5V	8A	0	5%	Coax
SPU45-103	42	6V	7A	0	5%	Coax
SPU45-104	45	10V	4.5A	0	4%	Coax
SPU45-105	45	12V	3.75A	0	3%	Coax
SPU45-106	45	15V	3A	0	3%	Coax
SPU45-107	50	18V	2.77A	0	3%	Coax
SPU45-108	50	24V	2.08A	0	2%	Coax
SPU45-109	50	30V	1.66A	0	2%	Coax
SPU45-110	50	36V	1.38A	0	2%	Coax
SPU45-111	50	48V	1.04A	0	2%	Coax
DUAL OUTPUT						
SPU45-200	40	3.3/12	5/2A	0.5/0.3A	7/5%	DIN
SPU45-201	42	5/12V	5/2A	0.5/0.3A	5/5%	DIN
SPU45-202	42	5/15V	5/1.5A	0.8/0.3A	5/6%	DIN
SPU45-203	42	5/24V	5/1A	0.5/0.1A	5/5%	DIN
SPU45-204	26.5	3.3/5V	5/2A	0.5/0.2A	7/5%	DIN
SPU45-209	42	12/-12V	3/1A	0.3/0.1A	5/5%	DIN
SPU45-210	42	15/-15V	2/1A	0.2/0.1A	5/5%	DIN
SPU45-215	42	5/-24V	5/1A	0.5/0.1A	5/5%	DIN
SPU45-216	23.82	5.1/7.2V	1/2.6	0/0.2A	5/5%	DIN
TRIPLE OUTPUT						
SPU45-300	42	3.3/12/-12V	5/2/0.8A	1/0.3/0.1A	7/5/5%	DIN
SPU45-301	42	5/12/-5V	5/2/0.8A	0.5/0.2/0.8A	5/5/5%	DIN
SPU45-302	42	5/12/-12V	5/2/0.8A	0.5/0.2/0.8A	5/5/5%	DIN
SPU45-303	42	5/15/-15V	5/2/0.8A	0.5/0.3/0.8A	5/6/5%	DIN
SPU45-304	42	5/24/-24	5/1/0.5A	0.5/0.2/0.5A	5/5/5%	DIN
SPU45-305	42	5/24/-12	5/1/0.8A	0.5/0.1/0.8A	5/5/5%	DIN
SPU45-306	42	3.3/12/-5	5/2/0.8A	0.5/0.4/0.8A	7/5/5%	DIN

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SPU45 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (100VAC)	1.35A
	High Line (240VAC)	0.8A
Inrush Current, typ (Cold Start)	Low Line (100VAC)	20A max.
	High Line (240VAC)	40A 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)	+/- 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 Current Protection	110-150% *	
Over Voltage Protection	112-132% * crowbar Mode	
Start Up Time	100Vin, FL	8S max.
Hold Up Time	100Vin, FL	12mS min

GENERAL SPECIFICATIONS

Input-Out Isolation	4242 VAC
Input-Ground Isolation	2677VAC
Isolation Resistance	50 Mohm min.
Efficiency (FL, 230Vin)	83%, typ
Switching Frequency	82 KHz
Safety	(c)UL60950-1, 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.

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.

** The Ripple and noise for uncer 3.3VDC is at 2% pk-pk max.

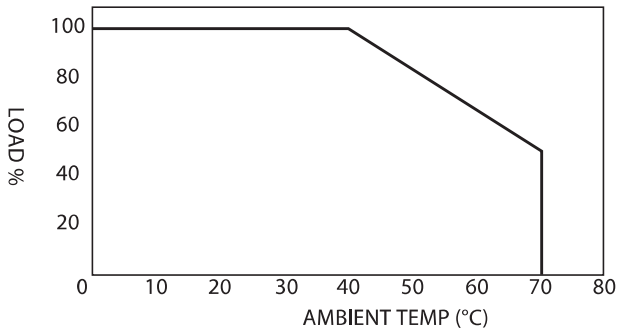
PHYSICAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

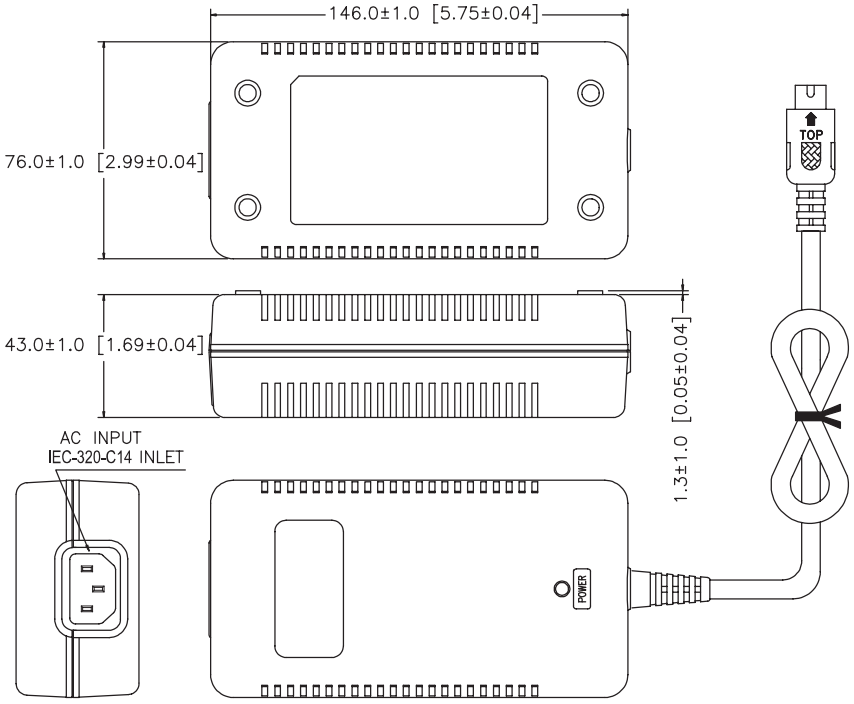
Oper. Temperature	0 to +40°C (FL) *	
	50% Load @ 70°C	
	(See Derate Curve)	
Storage Temperature	-40 to +85°C *	
Relative Humidity	1% to 95%, non-cond *	
EMC	110Vin:	FCC Part 15 Class B
	220Vin:	CISPR-22 Class B
MTBF	100,000 Hrs	

DERATE CURVE



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MECHANICAL DIMENSIONS



DC OUTPUT CONNECTIONS

DIN (Multi-Output Models)

5 Pin DIN



1. COM
2. COM
3. Output #1
4. Output #3 (Triples, N.C. Otherwise)
5. Output #2

SPU45-200~216 Output Cord Lengh 48" typ. 20AWG
SPU45-300~306 Output Cord Lengh 48" typ. 20AWG

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