



45 Watt Desktop Switching Power Adapters

SPU45 series



5.75" x 3" x 1.7"

- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Single, Dual and Triple Outputs
- 3000V Isolation
- Splash Proof Case



Model Number	Output Watts	Output Voltage	Output Amps	Min. Load	Total Regulation	Output Connector
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SINGLE OUTPUT

SPU45-100	20	2.5V	8A	0	7%	DIN
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

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ASTRODYNE USA: 1-800-823-8082
ASTRODYNE PACIFIC: 886-2-26983458



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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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INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC (Universal)	
Frequency Range	47-63 Hz	
Input Current	Low Line (115VAC)	1.35A
	High Line (230VAC)	0.7A
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)	+/- 7%, max.	
Line Regulation	+/- 1%, max.	
Transient Response	100Vin, FL to 1/2L	4mS
Temperature Coefficient	+/-0.04%/°C, typ	
Ripple/Noise	FL, 90Vin	2% 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	
	SPU45-101~104 82 KHz
	SPU45-105~111 68 KHz
	All Others 82 KHz
Safety	(c)UL1950, 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.

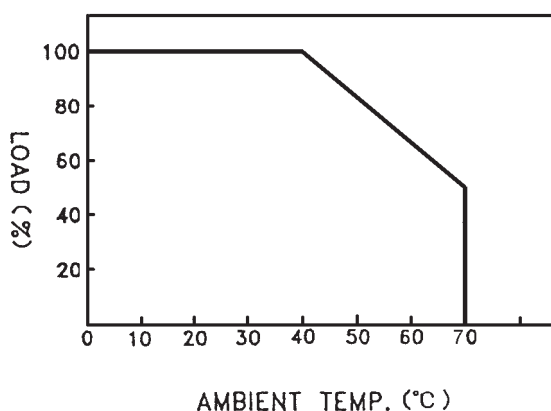
PHYSICAL SPECIFICATIONS

Size	5.75" x 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



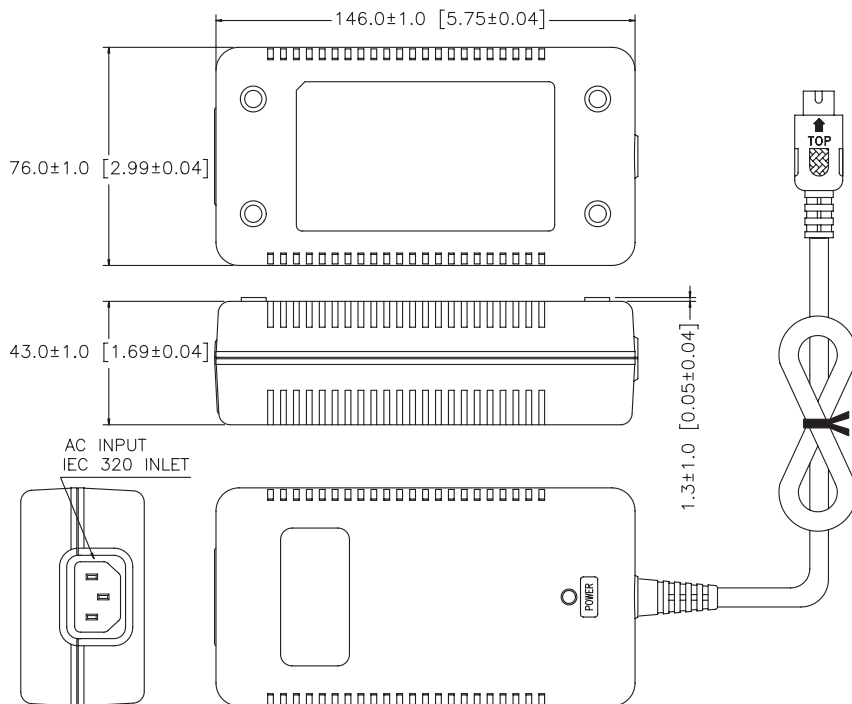
Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.



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MECHANICAL DIMENSIONS



DC OUTPUT CONNECTIONS

Coaxial Plug (Single Output Models)

-Vout  +Vout

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

SPU45-100~101 Output Cord Length 48" typ. 16AWG
 SPU45-102~105 Output Cord Length 72" typ. 16AWG
 SPU45-106~111 Output Cord Length 72" typ. 18AWG
 SPU45-200~216 Output Cord Length 48" typ. 20AWG
 SPU45-300~306 Output Cord Length 48" typ. 20AWG

DIN (Multi-Output Models)

5 Pin DIN

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

