



5.75"W x 3.0"L x 1.7"H

- Universal 85-265VAC Input
- UL60601-1, EN60601-1 Approved
- Regulated Outputs
- 4000V Isolation
- IEC320-C14 Input



Model Number	Output Voltage	Output Amps	Regulation	Output Watts	Output Connector
<b>SINGLE OUTPUT</b>					
MPU50-100	2.5	12	7%	30W	DIN
MPU50-101	3.3	12.12	5%	40W	DIN
MPU50-102	5	8	5%	40W	DIN
MPU50-103	6	7	5%	42W	Coaxial
MPU50-104	10	4.5	4%	45W	Coaxial
MPU50-105	12	3.75	3%	45W	Coaxial
MPU50-106	15	3	3%	45W	Coaxial
MPU50-107	18	2.7	3%	50W	Coaxial
MPU50-108	24	2.08	2%	50W	Coaxial
MPU50-109	30	1.66	2%	50W	Coaxial
MPU50-110	36	1.38	2%	50W	Coaxial
MPU50-111	48	1.04	2%	50W	Coaxial





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### DUAL OUTPUT

MPU50-200	3.3/12	5/2	7/5%	40W	DIN
MPU50-201	5/12	5/2	5/5%	42W	DIN
MPU50-202	5/15	5/1.5	5/5%	42W	DIN
MPU50-203	5/24	5/1	5/5/0%	42W	DIN
MPU50-204	3.3/5	5/2	7/5%	26.5W	DIN
MPU50-209	+/-12	3/1	5/5%	42W	DIN
MPU50-210	+/-15	2/1	5/5%	42W	DIN
MPU50-216	5.1/7.2	5/2.6	5/5%	42W	DIN
MPU50-217	+/-10.5	+/-2.0	5/5%	42W	DIN
MPU50-218	+/-5	5/2	5/5%	35W	DIN

### TRIPLE OUTPUT

MPU50-300	3.3,+/-12	5/2/0.8	7/5/5%	42W	DIN
MPU50-301	5/12/-5	5/2/0.8	5/5/5%	42W	DIN
MPU50-302	5/12/-12	5/2/0.8	5/5/5%	42W	DIN
MPU50-303	5/15/-15	5/2/0.8	5/6/5%	42W	DIN
MPU50-304	5,+/-24	5/1/0.5	5/5/5%	42W	DIN
MPU50-305	5/24/-12	5/1/0.8	5/5/5%	42W	DIN
MPU50-306	3.3/12/-5	5/2/0.8	7/5/5%	42W	DIN

### INPUT SPECIFICATIONS

Input Voltage Range	85-265 VAC
Frequency Range	47-63 Hz
Input Current	(115/230 VAC Input @ FL) 1.6 / 1.0A
Inrush Current, typ (Cold Start)	
115VAC Input	12 Amps (15Amps Max.) *
230VAC Input	26 Amps (30 Amps Max.) *
Leakage Current	0.1mA typ. @ 240VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Charts
Load Regulation	See Selection Charts
Line Regulation	+/- 0.5%, typ (1% Max.)
Temperature Coefficient	+/-0.04%/°C, typ
Ripple/Noise	0.5% Pk-Pk, typ (1% Max.)
Over Voltage Protection	112-132% (O/P 1 only) *
Over Current Protection	110-150% of Rated Current
Transient Response	50% to 100% Load      4mS
Start Up Time (min./typ./max.)	0.3/1/2 Seconds
Hold Up Time	16-20mS at 110VAC Input

### GENERAL SPECIFICATIONS

Isolation	I/P-O/P: 4000VAC
	I/P-Ground: 1500VAC
Isolation Resistance	100 Mohm
Efficiency	83% typ.
Safety	UL60601-1, EN60601-1

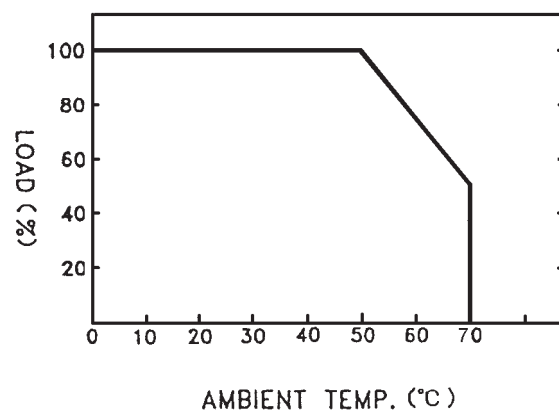
### PHYSICAL SPECIFICATIONS

Size	5.75" x 3.0" x 1.7"
Construction	Desktop Style
Weight	11.4 oz (325g)

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +70°C
	See Derate Curve
Storage Temperature	-40 to +85°C *
Relative Humidity	5 to + 95%, non-cond *
EMC	Vin = 220VAC      CISPR-11 B
	Vin = 110VAC      FCC Part 18 B
MTBF	100,000 Hrs

### OUTPUT DERATING CURVE

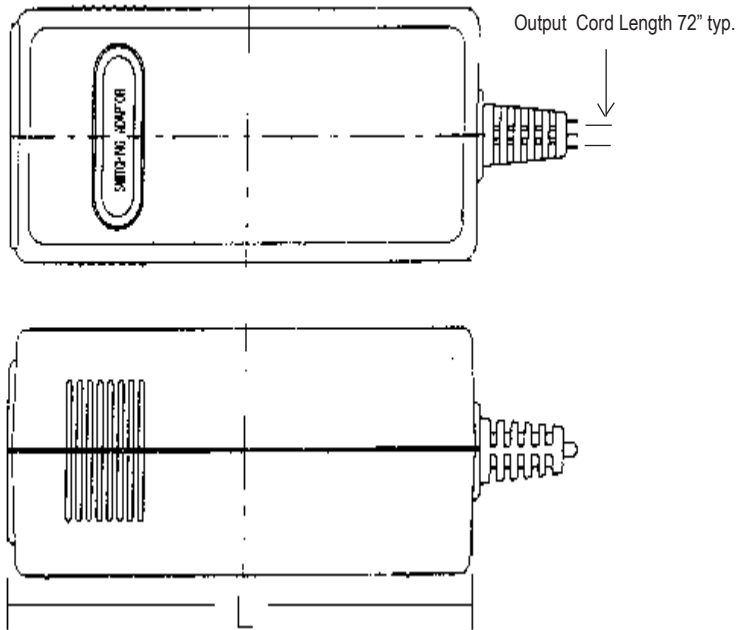


All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

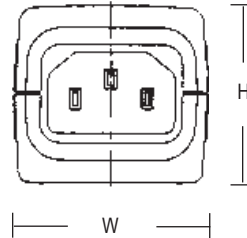
\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

**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.**

### MECHANICAL DIMENSIONS



### Input Connection



### DC Output Connections

#### Coaxial Plug (Single Output Models)



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

#### DIN (Single-Output Models)

5 Pin DIN



1. COM  
2. COM  
3. Vout  
4. COM  
5. Vout  
SHELL = GND

#### DIN (Multi-Output Models)

5 Pin DIN



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