



3"W x 5.75"L x 1.7"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 |

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 warranted nor implied.

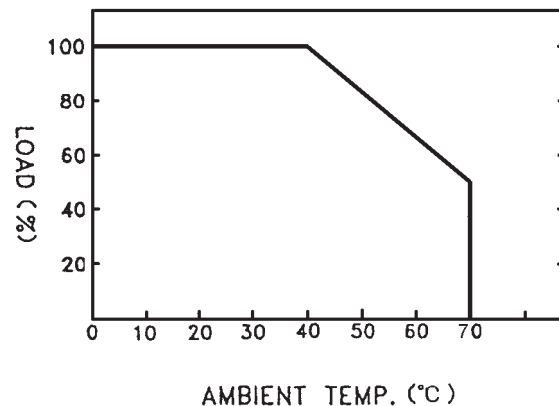
PHYSICAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

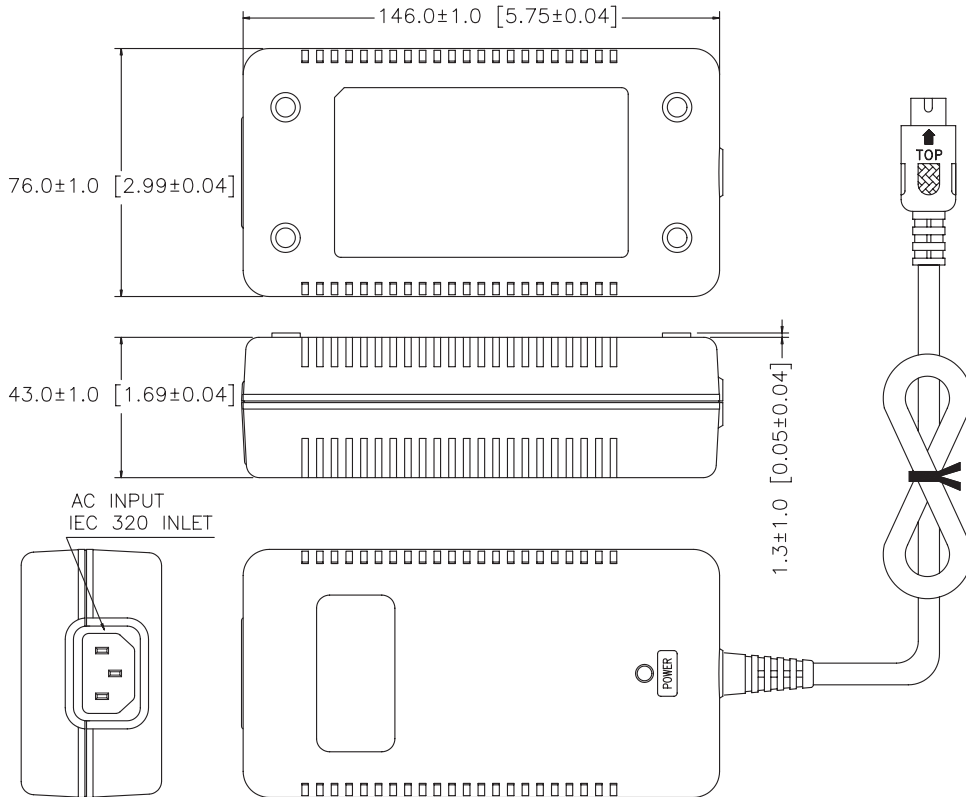
| | | |
|---------------------|---------------------------------------|---------------------|
| Oper. Temperature | 0 to +40°C (FL) * | |
| | 50% Load @ 70°C (See Derate Curve) | |
| Storage Temperature | -40 to +85°C * | |
| Relative Humidity | 5% to 95%, non-cond * | |
| EMC | 110Vin: | FCC Part 15 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.

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

