



60W Desktop Switching Power Supplies

**SPU60** series



4.6" x 1.36" x 2.0"

- Universal 90-264VAC Input
- IEC-320-C14 Input Receptacle
- Single Outputs from 3.3 to 48VDC
- 3000V Isolation
- LPS Efficiency Level V



| Model Number | Output Watts | Output Volts | Output Amps | Total Regulation |
|--------------|--------------|--------------|-------------|------------------|
| SPU60-101    | 20           | 3.3V         | 6A          | 7%               |
| SPU60-102    | 30           | 5V           | 6A          | 5%               |
| SPU60-103    | 35           | 6V           | 5.8A        | 5%               |
| SPU60-104    | 40           | 10V          | 4A          | 5%               |
| SPU60-105    | 50           | 12V          | 4.16A       | 5%               |
| SPU60-105-1  | 60           | 12V          | 5A          | 5%               |
| SPU60-106    | 55           | 15V          | 3.66A       | 5%               |
| SPU60-107    | 60           | 18V          | 3.33A       | 5%               |
| SPU60-108    | 60           | 24V          | 2.5A        | 5%               |
| SPU60-109    | 60           | 30V          | 2A          | 5%               |
| SPU60-110    | 60           | 36V          | 1.66A       | 3%               |
| SPU60-111    | 60           | 48V          | 1.25A       | 3%               |



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### INPUT SPECIFICATIONS

|                                  |                             |
|----------------------------------|-----------------------------|
| Input Voltage Range              | 90-264 VAC                  |
| 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) | +/- 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 Voltage Protection  | 112-132% *                     |
| Over Current Protection  | 110-150% *                     |
| Start Up / Hold Up Time  | 100Vin, FL 2S max. / 16mS min. |

### GENERAL SPECIFICATIONS

|                         |                         |
|-------------------------|-------------------------|
| Input-Out Isolation     | 3000 VAC                |
| Input-Ground Isolation  | 1500VAC                 |
| Isolation Resistance    | 50 Mohm min.            |
| Efficiency (FL, 230Vin) | 75%, typ                |
| Safety                  | (c)UL60950-1, 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.

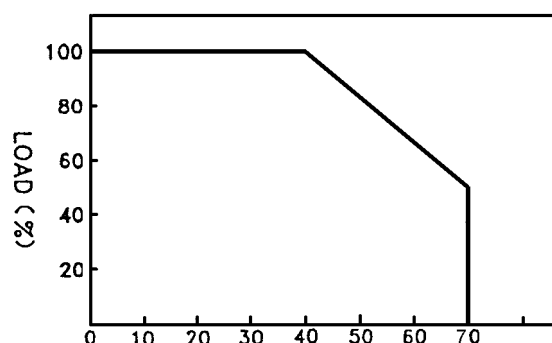
### PHYSICAL SPECIFICATIONS

|              |                      |
|--------------|----------------------|
| Size         | 4.64" x 1.36" x 2.0" |
| Construction | Desktop Style        |
| Weight       | 12oz (340g)          |

### 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                 |
| Efficiency Level    | V                           |

### DERATE 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.

### MECHANICAL DIMENSIONS

