



4.21" x 1.85" x 1.19"

- Universal 90-264VAC Input
- IEC-320-C14 3 Prong Inlet
- Single Outputs from 5 to 48VDC
- 3000V Isolation
- Class I
- LPS Efficiency Level V (Most Models)



| Model Number | Output Watts | Output Volts | Output Amps | Total Regulation |
|--------------|--------------|--------------|-------------|------------------|
| VPU40A-102   | 25           | 5V           | 5A          | 5%               |
| VPU40A-103   | 30           | 6V           | 5A          | 5%               |
| VPU40A-104   | 35           | 10V          | 3.5A        | 5%               |
| VPU40A-105   | 40           | 12V          | 3.33A       | 5%               |
| VPU40A-106   | 40           | 15V          | 2.66A       | 5%               |
| VPU40A-107   | 40           | 18V          | 2.22A       | 3%               |
| VPU40A-108   | 40           | 24V          | 1.66A       | 3%               |
| VPU40A-109   | 40           | 30V          | 1.33A       | 3%               |
| VPU40A-110   | 40           | 36V          | 1.11A       | 3%               |
| VPU40A-111   | 40           | 48V          | 0.83A       | 3%               |

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.

### INPUT SPECIFICATIONS

|                                  |                        |          |
|----------------------------------|------------------------|----------|
| Input Voltage Range              | 90-264 VAC (Universal) |          |
| Frequency Range                  | 47-63 Hz               |          |
| Input Current                    | Low Line (115VAC)      | 0.8A     |
|                                  | High Line (230VAC)     | 0.52A    |
| Inrush Current, typ (Cold Start) | Low Line (115VAC)      | 35A max. |
|                                  | High Line (230VAC)     | 70A 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% *           |                     |
| Start Up / Hold Up Time  | 100Vin, FL           | 3S max. / 10mS min. |

### GENERAL SPECIFICATIONS

|                         |                         |
|-------------------------|-------------------------|
| Input-Out Isolation     | 3000 VAC                |
| Input-Ground Isolation  | 1500VAC                 |
| Isolation Resistance    | 50 Mohm min.            |
| Efficiency (FL, 230Vin) | 87%, typ                |
| Safety                  | (c)UL60950-1; EN60950-1 |
| Efficiency Level V      | SPU40-104~111 Only      |

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.

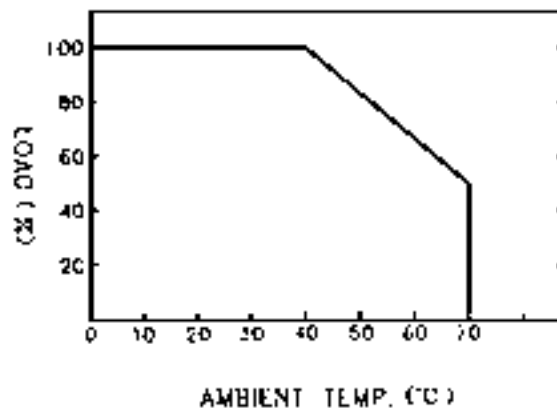
### PHYSICAL SPECIFICATIONS

|              |                       |
|--------------|-----------------------|
| Size         | 4.21" x 1.85" x 1.19" |
| Construction | Desktop Style         |
| Weight       | 9.88oz (280g)         |

### ENVIRONMENTAL SPECIFICATIONS

|                     |                                       |                     |
|---------------------|---------------------------------------|---------------------|
| Oper. Temperature   | 0 to +40°C (FL) *                     |                     |
|                     | 50% Load @ 70°C<br>(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



**MECHANICAL DIMENSIONS - VPU40A IEC-320-C14 INLET**

**COAXIAL PLUG:**

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

