



- Universal 90-264VAC Input
- 5 Input Connection Options
- Single Outputs from 3.3 to 48VDC
- 3000V Isolation
- Splash Proof Case
- LPS Efficiency Level IV or V



| Model Number | Output Watts | Output Voltage | Output Amps | Total Regulation |
|-----------------------------|--------------|----------------|-------------|------------------|
| *SPU16(A, B, C, D or E)-101 | 8.25 | 3.3V | 2.5A | 7% |
| *SPU16(A, B, C, D or E)-102 | 12 | 5V | 2.4A | 5% |
| *SPU16(A, B, C, D or E)-103 | 12 | 6V | 2.0A | 5% |
| *SPU16(A, B, C, D or E)-104 | 15 | 10V | 1.5A | 5% |
| *SPU16(A, B, C, D or E)-105 | 15 | 12V | 1.25A | 5% |
| *SPU16(A, B, C, D or E)-106 | 15 | 15V | 1.0A | 5% |
| *SPU16(A, B, C, D or E)-107 | 15 | 18V | 0.83A | 5% |
| *SPU16(A, B, C, D or E)-108 | 15 | 24V | 0.62A | 5% |
| *SPU16(A, B, C, D or E)-109 | 15 | 30V | 0.5A | 5% |
| *SPU16(A, B, C, D or E)-110 | 15 | 36V | 0.41A | 3% |
| *SPU16(A, B, C, D or E)-111 | 15 | 48V | 0.31A | 3% |

* Note:

The Asterisk * denotes a choice of AC input connectors (A, B, C, D or E option; i.e. SPU16E-101). Please see Mechanical Dimensions. If not denoted, option "A" IEC-320-C14 connector is used.

Low cost 3 Wire IEC320/C13 (Part Number ACCRD-C13) and 2 Wire IEC320/C7 (Part Number ACCRD-C7) Input Power Cords are available for these products. Inquire to the Astrodyne Sales Depart.

INPUT SPECIFICATIONS

| | | |
|----------------------------------|--------------------|----------|
| Input Voltage Range | 90-264 VAC | |
| Frequency Range | 47-63 Hz | |
| Input Current | Low Line (115VAC) | 0.4A |
| | High Line (230VAC) | 0.26A |
| 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) | ± 3%, typ. | |
| 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. (2%, 3.3Vout) | |
| Short Circuit Protection | Continuous, self-recovering * | |
| Start Up / Hold Up Time | 100Vin, FL | 2S max. / 5 mS min. |

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.

GENERAL SPECIFICATIONS

| | |
|-------------------------|-------------------------|
| Isolation | I/P - O/P: 3000 VAC |
| | I/P - GND: 1500 VAC |
| Isolation Resistance | 50 MΩ min. |
| Efficiency (FL, 230Vin) | 80%, min. |
| Switching Frequency | 89 KHz |
| Safety | (c)UL60950-1, EN60950-1 |

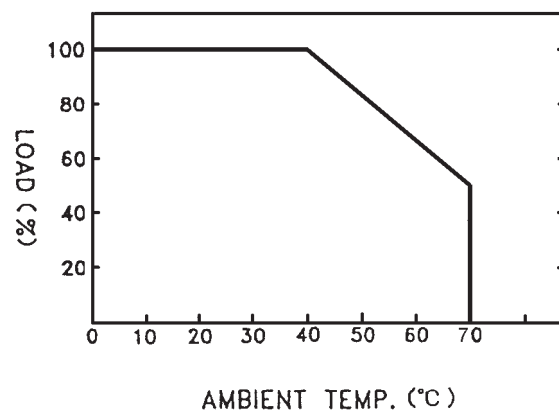
PHYSICAL SPECIFICATIONS

| | |
|--------------|----------------------|
| Size | 3.58" x 1.5" x 1.42" |
| Construction | Desktop Style |
| Weight | 5.8oz (165g) |

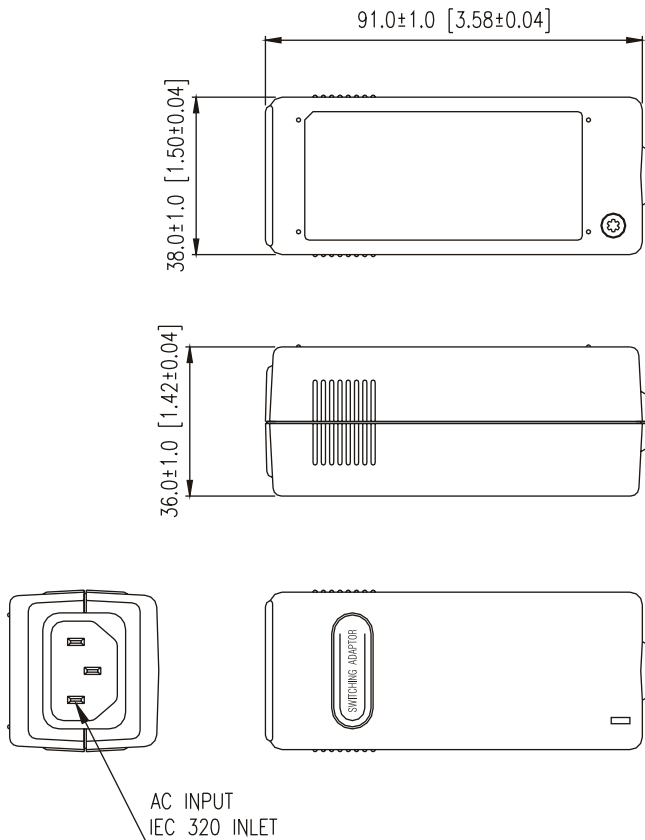
ENVIRONMENTAL SPECIFICATIONS

| | |
|---------------------|---------------------------------------|
| 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 | SPU16x-101: IV |
| | All others: V |

DERATE CURVE



MECHANICAL DIMENSIONS - SPU16A-XXX (IEC-320-C14 3 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

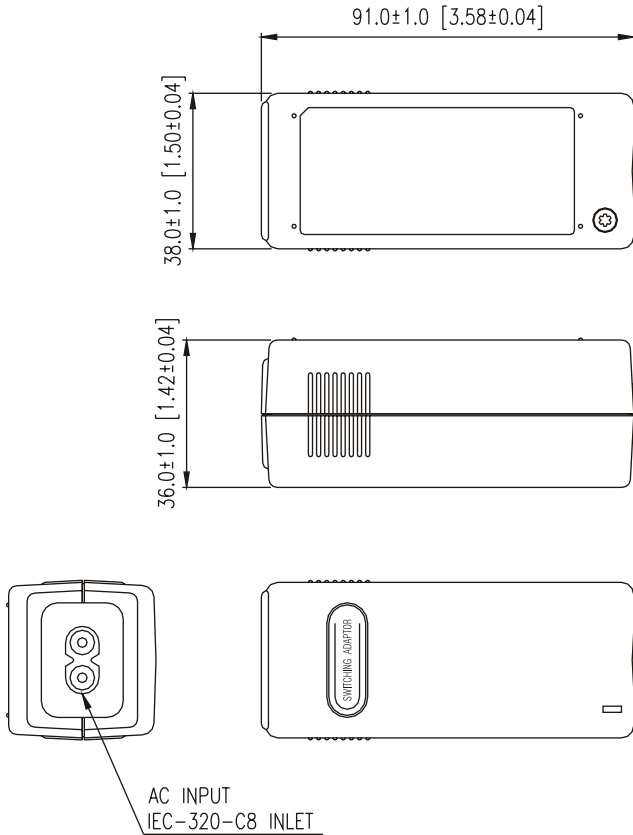
5.5mm outer diameter
2.1mm inner diameter, female
11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16B-XXX (IEC-320-C8 2 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

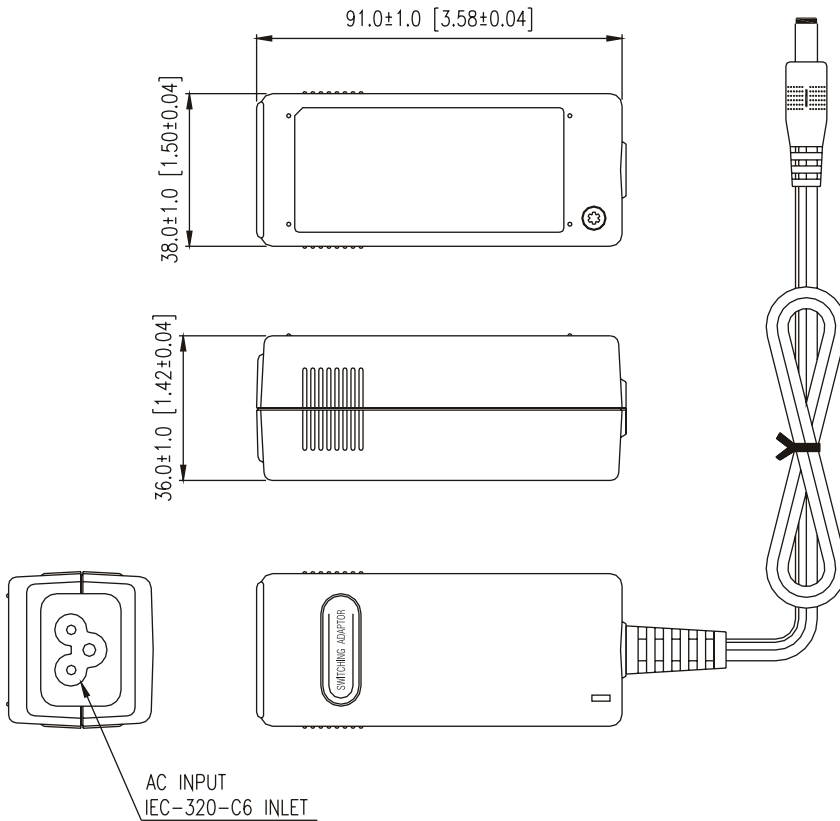
5.5mm outer diameter
2.1mm inner diameter, female
11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16C-XXX (IEC-320-C6 3 PRONG INPUT RECEPTACLE)



DC OUTPUT CONNECTIONS

Coaxial Plug

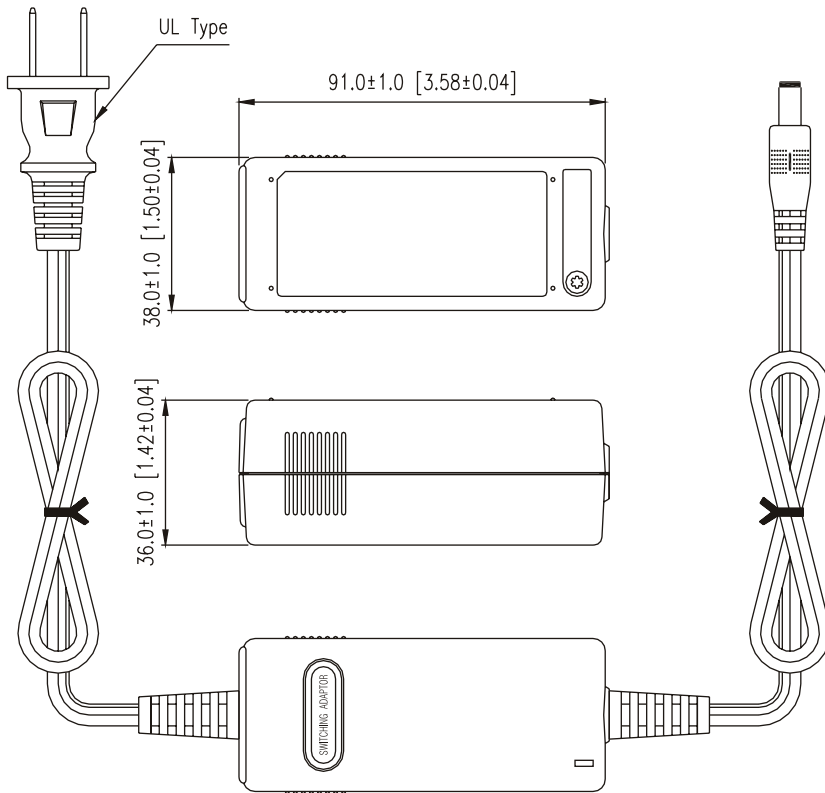
5.5mm outer diameter
2.1mm inner diameter, female
11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16D-XXX (IEC-320 2 PRONG MOLDED INPUT CORD)



DC OUTPUT CONNECTIONS

Coaxial Plug

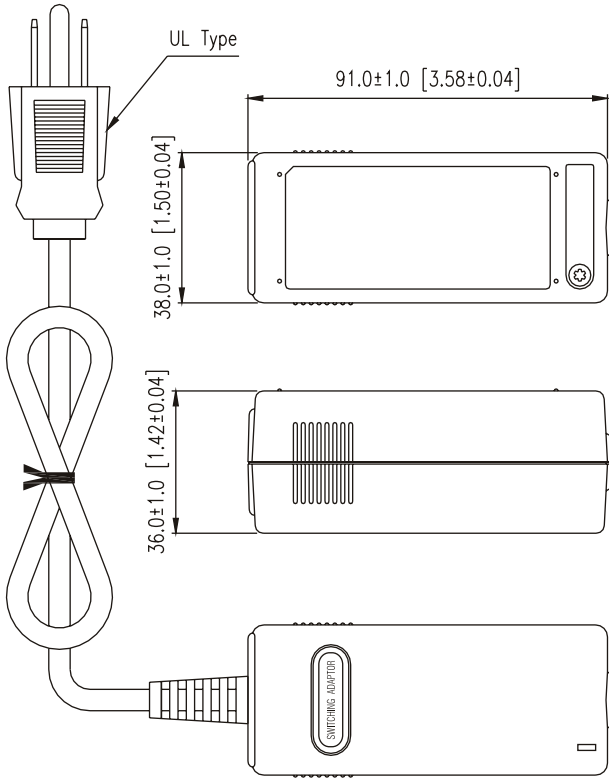
5.5mm outer diameter
 2.1mm inner diameter, female
 11mm length, center "+"



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG

MECHANICAL DIMENSIONS - SPU16E-XXX (IEC-320 3 PRONG MOLDED INPUT CORD)



DC OUTPUT CONNECTIONS

Coaxial Plug

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



SPU16x-101~103 Output Cord Length 48" 16AWG

SPU16x-104~111 Output Cord Length 48" 18AWG