



- Wide Input Voltage 90 to 264VAC, 47~63Hz
- IEC-320-C14 Input Inlet
- Single Output
- Output Voltage Available from 5Volts(DC) thru 48Volts(DC)
- Splash proof
- Class I
- Energy Star



<u>Model Number</u>	<u>Output Amps</u>	<u>Output Volts</u>	<u>Rated Power</u>	<u>Total Regulation</u>
SPU31-102	4.00 Amps	5 Volts(DC)	20W	5%
SPU31-103	4.16 Amps	6 Volts(DC)	25W	5%
SPU31-104	3.0 Amps	10 Volts(DC)	30W	5%
SPU31-105	2.5 Amps	12 Volts(DC)	30W	5%
SPU31-106	2.0 Amps	15 Volts(DC)	30W	5%
SPU31-107	1.66 Amps	18 Volts(DC)	30W	5%
SPU31-108	1.25 Amps	24 Volts(DC)	30W	3%
SPU31-109	1.0 Amps	30 Volts(DC)	30W	3%
SPU31-110	0.83 Amps	36 Volts(DC)	30W	3%
SPU31-111	0.62 Amps	48 Volts(DC)	30W	3%



30W Desktop Switching Power Supplies for I.T.E

SPU31 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Frequency Range	47-63 Hz
Input Current @ FL	Low Line 0.8Amps @ 115VAC High Line: 0.5Amps @ 230VAC
Inrush Current, @ FL (Cold Start)	Low Line: 15Amps max.@ 115VAC High Line 30Amps max.@ 230VAC
Leakage Current @ FL	0.75mAmps max @ 240VAC 0.5mAmps typ. @ 240VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Charts
Load Regulation	± 7% max.@ 230VAC
Line Regulation @ FL	± 1%, max. ±0.5% typ.
Transient Response	4mS @ 100VAC @ FL load to 1/2 load
Ripple/Noise @ FL	1% Pk-Pk,max @ 90VAC
Over Current Protection	110-150%
Start Up @ FL	2S @ 100VAC max 1S @ 100VAC typ. 0.3 @ 100VAC min.
Hold Up Time @ FL(min)	12 mS min.@ 110VAC

GENERAL SPECIFICATIONS

Isolation	4242 Volts(DC) Input-Output 2121Volts(DC) Input-Ground
Isolation Resistance	50 MΩ min. /500Volts(DC)
Efficiency @ FL	81%, typ
No-Load Power Consumption	0.5W max @ 240VAC 0.3W typ. @ 240VAC
EMI	CISPR-22B @ 220VAC FCC PART-15B @ 110VAC

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

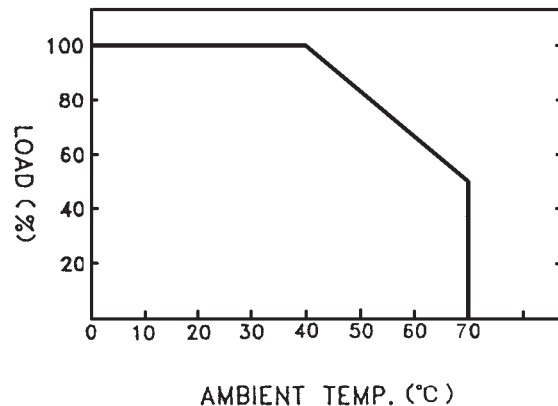
PHYSICAL SPECIFICATIONS

Size	107x47x29.6 mm (4.21"x1.85"x1.17")
Weight	9.35~8.87oz (265~280g)

ENVIRONMENTAL SPECIFICATIONS

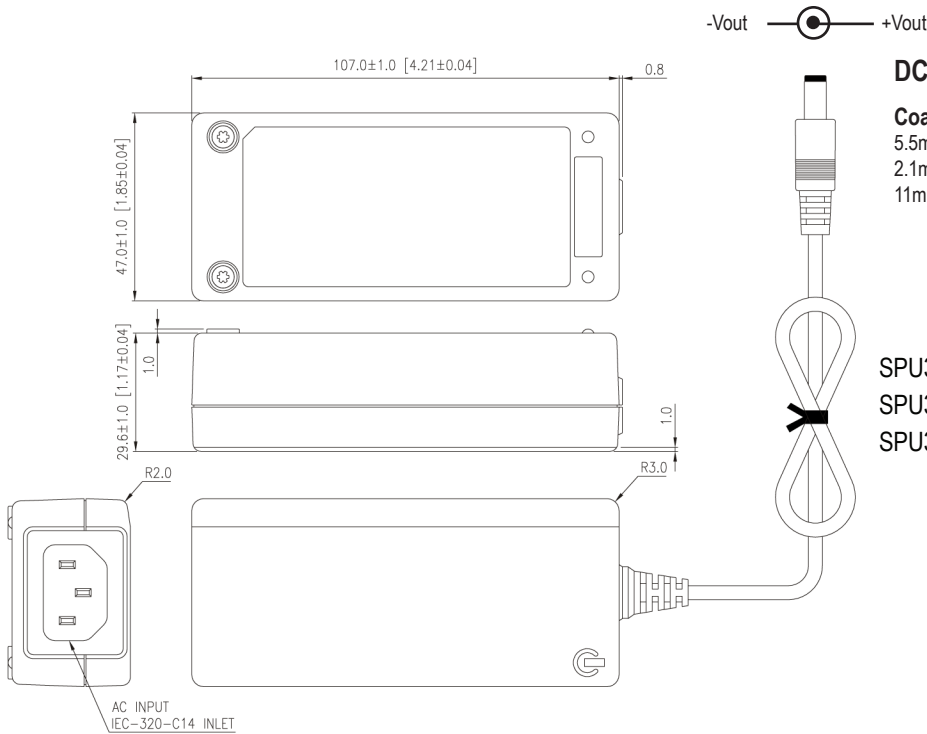
Oper. Temperature @ FL	0 to +70°C (See Derate Curve)
Storage Temperature	-40 to +85°C
Relative Humidity	5% to 95%, non-cond
MTBF	0.1 Mhrs MIL-HDBK-217F(25°C)
Temperature Coefficient	±0.04%/°C, typ
CEC	Models SPU31-104~111: Level V

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

SPU31-102~105 Output Cord Length 48"16AWG
 SPU31-106~108 Output Cord Length 48"18AWG
 SPU31-109~111 Output Cord Length 72"18AWG