



- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Class I
- Input Surge Current, Over Voltage and Over Current Protection
- Output Voltage Protection
- Power Factor Correction



Model Number	Output Voltage	Output Amps
SPU131-105	12 Volts(DC)	10.84 Amps
SPU131-108	24 Volts(DC)	5.42 Amps
SPU131-112	55 Volts(DC)	2.36 Amps



# Astrodyne

130 Watt Desktop Switching Power Supplies

## SPU131 series

### INPUT SPECIFICATIONS

Input Voltage Range	90-260 VAC
Frequency Range	47-63 Hz
Input Current @ FL	Low Line 1.32Amps max @ 115VAC High Line 0.66Amps max @ 230VAC
Inrush Current @ FL (Cold Start)	Low Line 30Amps max @ 115VAC High Line 50Amps max @ 230VAC
Leakage Current @ FL	0.75 mAmps max. @ 240VAC / 60 Hz
Power Factor @ FL	0.95~1 @ 230VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Charts
Load Regulation @ FL	± 5%, max. @ 230VAC
Line Regulation @ FL	± 1%, max. ± 0.5% typ.
Transient Response	4mS @ 100VAC
Ripple/Noise @ FL	1% Pk-Pk @ 90VAC
Start Up @ FL	2S max. @ 100VAC
Hold Up Time @ FL	16mS min @ 110VAC
Over Current Protection	110~150%
Over Voltage Protection	112~132%

### GENERAL SPECIFICATIONS

Isolation	4242 Volts(DC) Inpout-Output 2121 Volts(DC) Inpout-Ground
Efficiency @ FL @230VAC	88% typ.
EMI	CISPR-22 Class B @ 220VAC FCC PART-15 Class B @ 110VAC
No-Load Power Consumption	0.3~0.5W @ 240VAC

### PHYSICAL SPECIFICATIONS

Size	188.9 x 89.5 x 45.5 mm 7.44" x 3.52" x 1.79"
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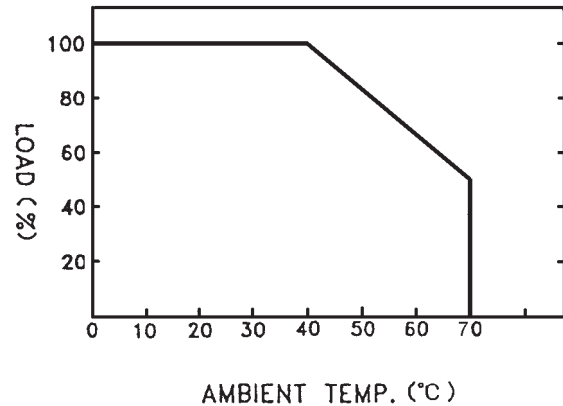
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

Weight	27.44-28.22 oz (778-800g)
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### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +70°C (See derate curve) 40°C typ.
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
Isolation Resistance	50 MΩ / 230VAC

### 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

