



- 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
- LPS Efficiency Level V
- Active Power Factor Correction
- Optional ON/OFF Switch



| Model Number | Output Voltage | Output Amps | Output Connector |
|---------------|----------------|-------------|------------------|
| SPU131-105(S) | 12 Volts(DC) | 10.84 Amps | 5 Pin DIN |
| SPU131-106(S) | 15 Volts(DC) | 8.66 Amps | 5 Pin DIN |
| SPU131-107(S) | 18 Volts(DC) | 7.22 Amps | 5 Pin DIN |
| SPU131-108(S) | 24 Volts(DC) | 5.42 Amps | 5 Pin DIN |
| SPU131-109(S) | 30 Volts(DC) | 4.33 Amps | 2.1mm Coax. |
| SPU131-110(S) | 36 Volts(DC) | 3.61 Amps | 2.1mm Coax. |
| SPU131-111(S) | 48 Volts(DC) | 2.70 Amps | 2.1mm Coax. |
| SPU131-112(S) | 55 Volts(DC) | 2.36 Amps | 2.1mm Coax. |

Note: "(S)" Denotes that there is an ON/OFF Switch option available for the SPU131 family of products. To order an SPU131 product with the optional ON/OFF Switch, simply add an "S" to the end of the standard Part Number. For example SPU131-105S.



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 @ 115VAC High Line 0.66Amps @ 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 min. @ 230VAC |

OUTPUT SPECIFICATIONS

| | |
|-------------------------|---------------------------|
| Voltage and Current | See Selection Charts |
| Load Regulation @ FL | ± 5%, max. @ 230VAC |
| Line Regulation @ FL | ± 5%, typ. ± 0.5% typ. |
| Transient Response | 4mS @ 100VAC |
| Ripple/Noise @ FL | 1% max. 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) Input-Output 2121 Volts(DC) Input-Ground |
| Efficiency @ FL @230VAC | 88% typ. |
| EMI | CISPR-22 Class B @ 220VAC FCC PART-15 Class B @ 110VAC |

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

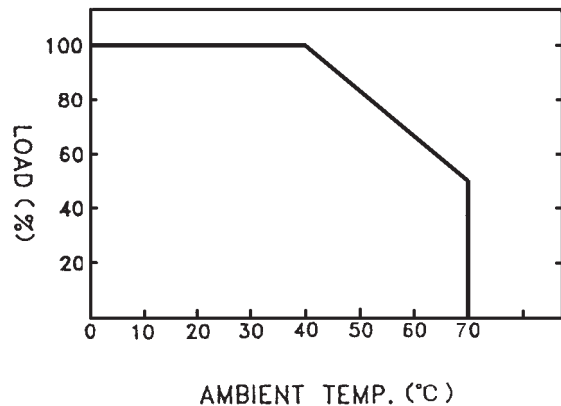
PHYSICAL SPECIFICATIONS

| | |
|--------|---|
| Size | 188.9 x 89.5 x 45.5 mm 7.44" x 3.52" x 1.79" |
| Weight | 27.44-28.22 oz (778-800g) |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|-------------------------------|
| Oper. Temperature | 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 |
| Isolation Resistance | 50 MΩ / 230VAC |
| Efficiency 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

