

SWITCHING LAPTOP

130 WATT SWITCHING POWER SUPPLIES

DESCRIPTION

130 series of AC/DC switching power supplies are for 60-130 watts of continuous output power. They are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC 320 inlet to mate with interchangeable cord for world-wide use. An on/off switch can be added at request. All models meet CISPR 22 and FCC class B emission limits, and comply with UL, CSA, IEC and CE requirements.

FEATURES

- Optional output connectors
- Optional on/off switch
- 100% burn-in at full rated load
- Auto-ranging input
- Input surge current protection
- Overvoltage protection
- Overcurrent protection
- Thermal protection

INPUT SPECIFICATIONS

Input voltage : 90 to 130 VAC or 180 to 260 VAC (auto-ranging)
Input frequency : 47 to 63 Hz
Input current :

PUP130 Series: 3.0A (rms) for 115VAC
1.7A (rms) for 230VAC

Leakage current : 0.40mA max.@ 115VAC, 60Hz
0.80mA max.@ 230VAC, 50Hz

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart
Total output power: See rating chart
Ripple and noise: 1% peak to peak maximum
Overvoltage protection: Provided on output; set at 112-132 % of its nominal output voltage
Overcurrent protection: All outputs protected to short circuit conditions
Temperature coefficient: All outputs +/-0.04%/ °C max.
Transient response: Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

130 SERIES **CE** (LVD+EMC)



Safety Standard Approvals:



UL 1950
File No. E137410



C22.2 No. 950
File No. LR93632



EN 60950
Certificate No. S9853008

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C to +50°C (PUP130 series)
Storage temperature: -40°C to +85°C
Relative humidity: 5% to 95% non-condensing

GENERAL SPECIFICATIONS

Switching frequency: 60K to 75KHz
Efficiency: 70% minimum on $V_o \geq 12V$,
65% minimum on the others

Hold-up time:

PUP130 Series: 10 msec minimum at 110VAC
Line regulation: +/-0.5% maximum at full load
Inrush current: 15amps @115 VAC, or 30 amps @ 230VAC, at 25 °C cold start
Withstand voltage: 3000VAC from input to output
1500VAC from input to ground
500VAC from output to ground
MTBF: PUP60/PUP80 300,000 hours minimum, PUP130 400,000 hours minimum at full load at 25 °C ambient, calculated per MIL-HDBK-217F, excluding DC fan.
EMI requirements: In compliance with CISPR 22 (EN 55022) Class B and FCC Class B
Safety requirements: Meets or Exceeds:
(a) UL 1950
(b) CSA C22.2 No. 950
(c) IEC 950 (EN 60950)