

AC/DC External Desktop

45 Watts CUP45 Series

XPiQ inc.

Intelligent Design Quality Product



CE Marked For EMC & LVD

•
Universal Input

•
100% Burn In

•
Internal EMI Filter

•
Low Profile

•
Short Circuit Protected

•
International Safety Approvals

Specification

All specifications typical at nominal line, full load and 25°C

Input

- Input Voltage • 90-264 VAC
- Input Frequency • 47-63 Hz
- Input Current • 1.5 A max
- Inrush Current • 50 A max at 115 VAC or
100 A max at 264 VAC cold start

Output

- Output Voltage • See Tables
- Output Current • See Tables
- Total Output Power • 0 to 48 Watts
- Hold Up Time • 8 ms at 115 VAC
- Ripple & Noise • 1% peak to peak max

General

- Overvoltage Protection • Set at 111-142% of nominal output, typically 125%
- Overcurrent Protection • Protected to short circuit conditions
- Efficiency • 82% typical
- Temperature Coefficient • +0.04%/°C max.
- Transient Response • Maximum excursion of 4% or better on all models. Recovers to 1% of final value within 500 μ s after a 25% step load change
- Withstand Voltage • 3000 VAC from input to output
1500 VAC from input to ground
500 VAC from output to ground

Environmental

- Operating Temperature • 0 °C to +55 °C, derate linearly from 100% load at +45 °C to 50% load at +55 °C
- Storage Temperature • -20 °C to +85 °C
- MTBF • 100,000 hours minimum at full load at +25 °C ambient
- Insulation Resistance • 50 Mohm minimum from output to ground

Safety & EMC

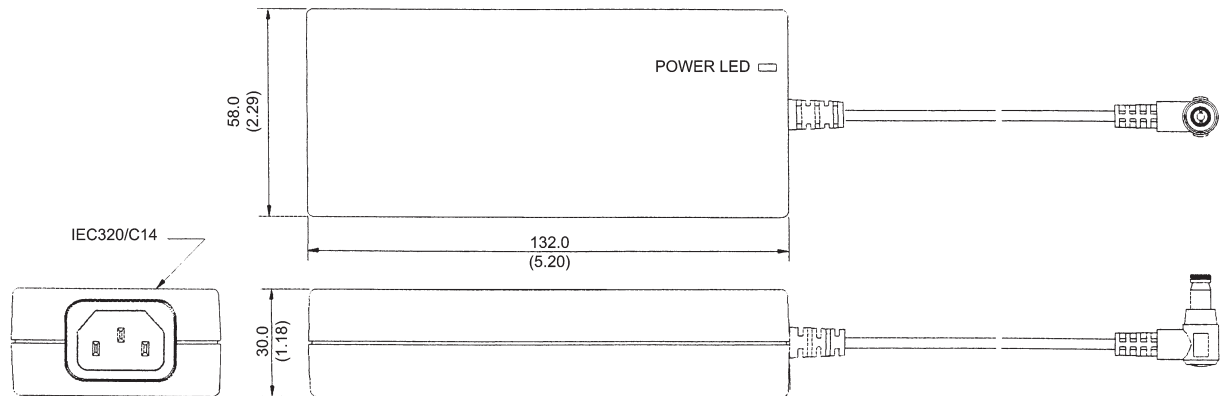
- Safety Approvals • Approved to
 - a) UL 1950
 - b) CSA C22.2 No. 234 per cUL
 - c) EN 60950
- EMI • Meets conducted and radiated limits of:
 - a) FCC 20780 Class B
 - b) CISPR Class B

OUTPUT VOLTAGE & CURRENT RATINGS**CUP45**

Maximum Output Power	Output				Model Numbers
	Vnom	Imin	Imax	Tol.*	
30 W	5 V	0 A	6.00 A	-5%, +7%	CUP45-10
45 W	12 V	0 A	3.75 A	5%	CUP45-12
45 W	15 V	0 A	3.00 A	4%	CUP45-13
45 W	18 V	0 A	2.50 A	3%	CUP45-13-1
45 W	19 V	0 A	2.37 A	3%	CUP45-13-2
45 W	24 V	0 A	1.88 A	3%	CUP45-14
48 W	48 V	0 A	1.00 A	2%	CUP45-18

Notes

* Total regulation includes initial tolerance, line regulation and load regulation.

Mechanical Details**NOTES**

1. Dimensions shown in mm (inches).
2. Tolerance 0.5 (0.02) maximum.
3. Output connector is 5.5mm outer diameter barrel. Inner diameter is 2.5mm with center positive (+)/outer shell negative (-) polarity.
4. Output cable length is 48" (± 0.8 ").
5. Optional output connectors available.
6. Weight: 300 g approx.