

AC/DC External Desktop

70 Watts CUP70 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 • 12-48 VDC
- Output Current • See Tables
- Total Output Power • 0 to 72 Watts
- Hold Up Time • 8 ms at 115 VAC
- Ripple & Noise • 1% pk-pk max

General

- Overvoltage Protection • Set at 111-142% of nominal output, typically 125%
- Overcurrent Protection • Protected to short circuit conditions
- Efficiency • 85% 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 500µs 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 +52 °C, derate linearly from 100% load at +40 °C to 50% load at +52 °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

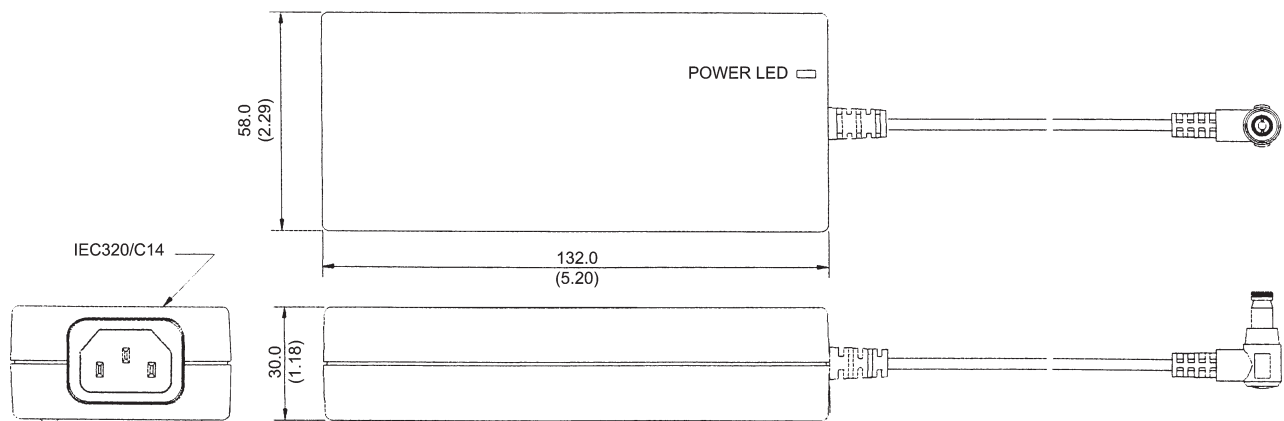
- Safety Approvals • Approved to
 - a) UL 1950
 - b) CSA C22.2 No. 234 by cUL
 - c) EN 60950
- EMI • Meets conducted and radiated limits of:
 - a) FCC 20780 Class B
 - b) CISPR Class B

OUTPUT VOLTAGE & CURRENT RATINGS**CUP70**

Maximum Output Power	Output				Model Number
	Vnom	Imin	I _{max}	Tol.*	
66 W	12 V	0 A	5.5 A	5%	CUP70-12
69 W	15 V	0 A	4.6 A	4%	CUP70-13
70 W	18 V	0 A	3.9 A	3%	CUP70-13-1
72 W	19 V	0 A	3.7 A	3%	CUP70-13-2
72 W	24 V	0 A	3.0 A	3%	CUP70-14
72 W	48 V	0 A	1.5 A	2%	CUP70-18

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.