

# AC/DC External Desktop

## 70 Watts CUP70 Series



## THE XPERTS IN POWER

CE Marked For EMC & LVD

•  
Universal Input

•  
100% Burn In

•  
Internal EMI Filter

•  
Low Profile

•  
Short Circuit Protection

•  
International Safety Approvals

### Specification

#### Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47-63 Hz
Input Current	• 1.5 A max
Inrush Current	• 50 A max at 264 VAC
Safety Ground Leakage Current	• 1.5 mA max

#### Output

Output Voltage	• 12-48 VDC
Output Power	• 72 Watts
Hold Up Time	• 8 ms at 115 VAC
Initial Set Accuracy	• $\pm 2\%$
Line Regulation	• $\pm 1\%$
Load Regulation	• See Table
Ripple & Noise	• 1% pk-pk max
Transient Response	• Maximum excursion of 4% or better on all models. Recovers to 1% of final value within 500 $\mu$ s after a 25% step load change
Overvoltage Protection	• Set at 111-142% of nominal output, typically 125%
Overcurrent Protection	• 120-150% with auto recovery
Short Circuit Protection	• Hiccup mode
Temperature Coefficient	• +0.04%/°C max.

#### General

Efficiency	• 85% typical
Isolation	• 3000 VAC from input to output 1500 VAC from input to ground 500 VAC from output to ground
Insulation Resistance	• 50 Mohm minimum from output to ground
MTBF	• 100,000 hours MIL-HDBK-217F
Dimensions	• 5.20" x 2.28" x 1.18"
Weight	• 300 g approx.

#### Environmental

Operating Temperature	• 0 °C to +65 °C, derate linearly from 100% load at +40 °C to 0% load at +65 °C
Storage Temperature	• -20 °C to +85 °C

#### Safety & EMC

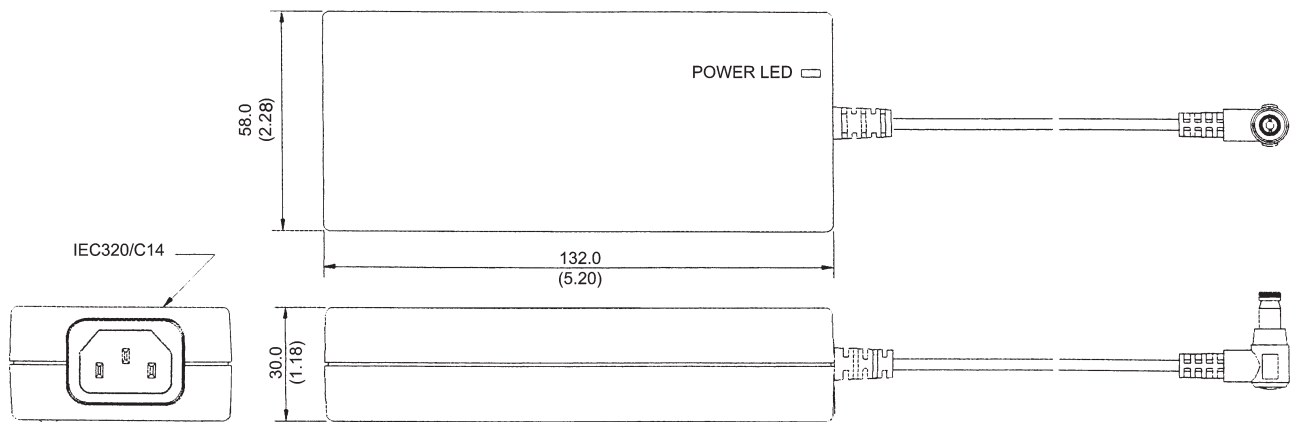
EMI	• CISPR Level B (EN55022), FCC 20780 Level B conducted and radiated
Safety Approvals	• EN60950, UL1950, CSA C22.2 No. 234 CUL per cUL

**OUTPUT VOLTAGE & CURRENT RATINGS****CUP70**

Maximum Output Power	Output			Load Regulation <sup>(1)</sup>	Model Number
	Vnom	Imin	I <sub>max</sub>		
66 W	12 V	0 A	5.5 A	±5%	CUP70-12
69 W	15 V	0 A	4.6 A	±3%	CUP70-13
70 W	18 V	0 A	3.9 A	±2%	CUP70-13-1
72 W	19 V	0 A	3.7 A	±2%	CUP70-13-2
72 W	24 V	0 A	3.0 A	±2%	CUP70-14
72 W	48 V	0 A	1.5 A	±2%	CUP70-18

**Notes**

1. Load regulation measured from 60% to full load and from 60% to 20% load.
2. Negative output is tied to ground. Output is not floating.

**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.