

AC/DC External Desktop

100 Watts AED100 Series

XPiQ inc.

Intelligent Design Quality Product



- CE Marked For EMC & LVD
- Active PFC - Meets EN61000-3-2, -3
- High Efficiency - 85% Typical
- High Power Density
- Small Size, Low Profile
- Overvoltage & Short Circuit Protected
- International Safety Approvals

Specification

Input

- *Input Voltage* 90-264 VAC
- *Input Frequency* 47-63 Hz
- *Inrush Current* 50 A @ 115 VAC, 100 A max at 264 VAC
- *Input Current* 1.10 A max at 115 VAC, 0.55A max at 230 VAC
- *Power Factor* 0.99 typical

Output

- *Output Voltage* 12-48 VDC
- *Output Power* 100 Watts
- *Minimum Load* 0 minimum load required
- *Line Regulation* ±1% max
- *Load Regulation* See Table
- *Set Point Accuracy* ±2% max
- *Ripple & Noise* ±1% max (peak-peak)
- *Transient Response* 4% max deviation, 500µs recovery time for a 25% load change
- *Temperature Coefficient* ±0.04%/°C
- *Hold Up Time* 20 ms minimum at 115 VAC
- *Overvoltage Protection* 110% to 130% with auto recovery
- *Overcurrent Protection* 120% to 140% with auto recovery

General

- *Efficiency* 85% typical
- *Power Density* 4.4 W/in³
- *Withstand Voltage* 3000 VAC Input to Output, 1500 VAC Input to Ground, 500 VAC Output to Ground
- *MTBF* 100,000 hrs min per MIL-HDBK-217F
- *Size* 2.76" x 5.91" x 1.38"
- *Weight* 520 grams

Environmental

- *Operating Temperature* 0°C to +65°C with derating, Derate linearly from 100% load at 50°C to 0% load at 65°C
- *Relative Humidity* 5% to 95%, non condensing
- *Storage Temperature* -20 °C to +85 °C

EMC & Safety

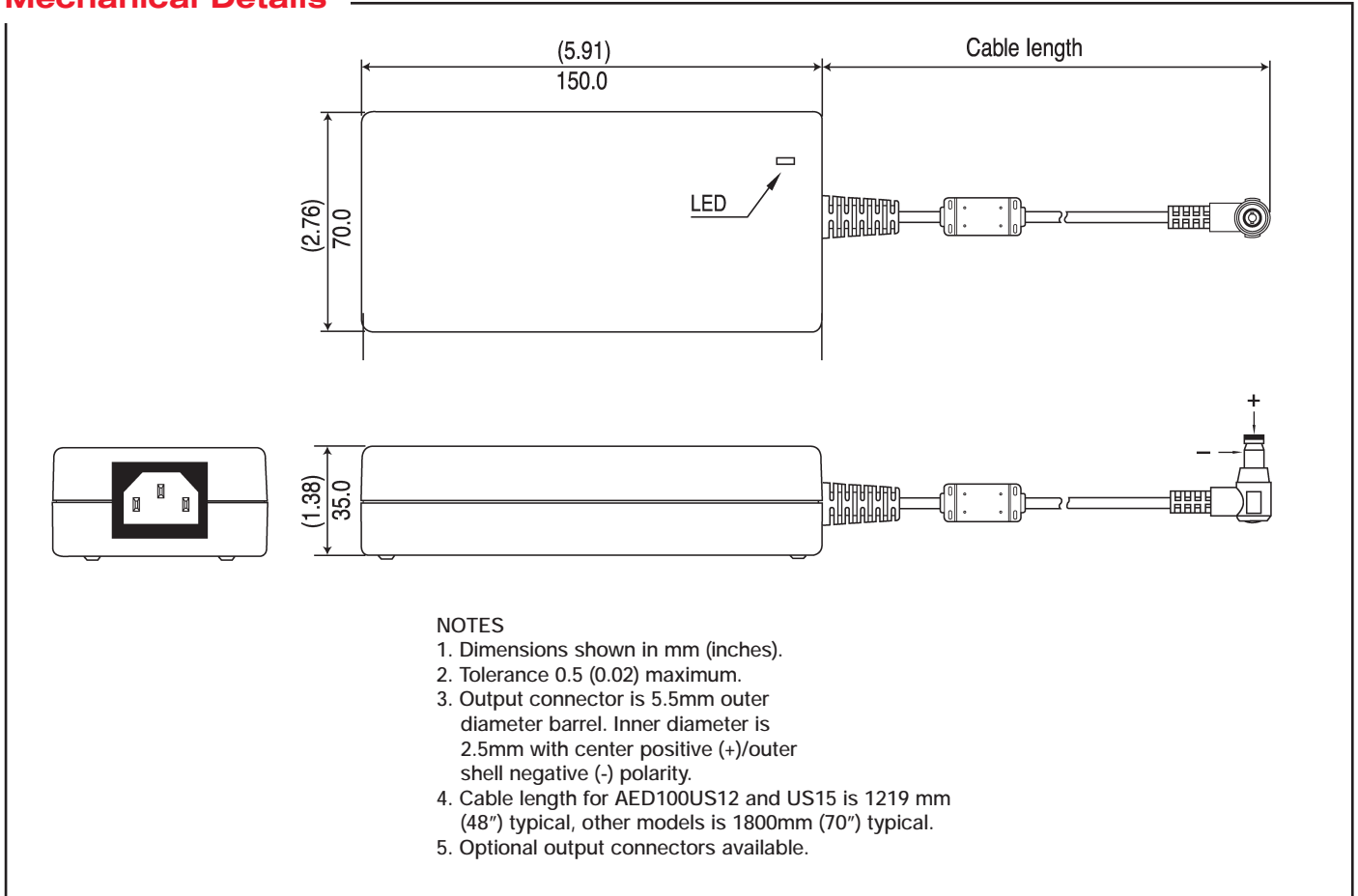
- *EMI/EMC* EN55022, CISPR22 and FCC Class B conducted and radiated CE Mark
- *Safety Approvals* UL1950, CSA C22.2 No 234 per cUL EN60950

OUTPUT VOLTAGE & CURRENT RATINGS**AED100**

Vnom	Imin	Imax	Total Regulation	Maximum Output Power	Model Number
12 V	0 A	8.33 A	4%	100 W	AED100US12
15 V	0 A	6.67 A	4%	100 W	AED100US15
18 V	0 A	5.56 A	2%	100 W	AED100US18
19 V	0 A	5.26 A	2%	100 W	AED100US19
24 V	0 A	4.17 A	2%	100 W	AED100US24
48 V	0 A	2.08 A	2%	100 W	AED100US48

Note

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

Mechanical Details**Derating Curve**