

AC-DC Desktop

36-100 Watts AED Series



THE **XP**ERTS IN POWER

- Low Profile
- Low Cost
- Universal Input
- Optional Output Connectors
- High Power Density
- 36, 45, 70 & 100 W Versions
- International Safety Approvals

Specification

Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47-63 Hz
Input Current	• 1.0 A AED36, 1.2 A AED45, 1.85 A AED70 and 2.0 A AED100
Inrush Current	• 50 A max at 230 VAC AED36, 100 A max at 230 VAC AED45, AED70 & AED100
Earth Leakage Current	• 1.5 mA max AED45, AED70 & AED100 AED36 is Class II

Output

Output Voltage	• See Tables
Output Power	• See Tables
Hold Up Time	• 8 ms min at 115 VAC AED36-70 20 ms typical at 115 VAC AED100
Tolerance	• See Tables
Ripple & Noise	• 1% pk-pk max
Overvoltage Protection	• Typical 125% max
Overcurrent Protection	• 120-150% trip and restart with auto restart

General

Efficiency	• 85% typical
Isolation	• 3000 VAC Input to Output, 2000 VAC Input to Ground, Negative output is connected to ground. For optional 500 VAC output to ground isolation - Contact Sales
Switching Frequency	• 60 kHz $\pm$ 10 kHz

Environmental

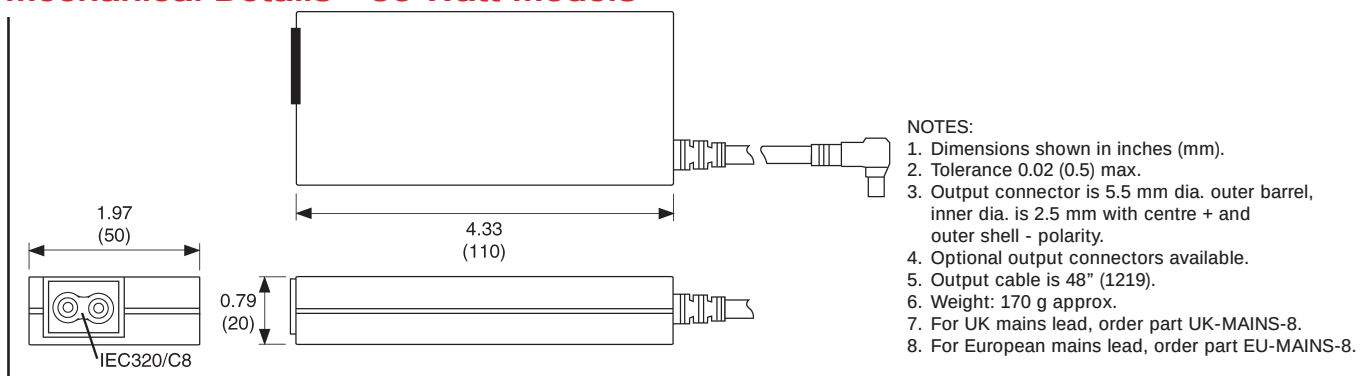
Operating Temperature	• 0 °C to +65 °C AED36, AED45 & AED70 derate linearly from 100% load at +40 °C to 50% load at +55 °C AED100 derate linearly from 100% load at +40 °C to 0% at 65 °C
Storage Temperature	• -20 °C to +85 °C
MTBF	• 100,000 hours MIL-HDBK-217E

EMC & Safety

EMC	• CISPR22 Level B (EN55022), FCC 20780 Level B
Safety Approvals	• EN60950, UL1950, CSA C22.2 No. 234 cUL

OUTPUT VOLTAGE & CURRENT RATINGS - 36 WATT MODELS				AED
Output Power Maximum	Output Voltage Nominal	Output Current Maximum	Output Tolerance	Model Number
20 W	5.0 V	4.00 A	-5%, +7%	AED36US05
27 W	9.0 V	3.00 A	5%	AED36US09
30 W	12.0 V	2.50 A	5%	AED36US12
32 W	13.5 V	2.40 A	4%	AED36US13
36 W	15.0 V	2.40 A	4%	AED36US15
36 W	18.0 V	2.00 A	4%	AED36US18
36 W	24.0 V	1.50 A	4%	AED36US24
36 W	48.0 V	0.75 A	4%	AED36US48

Mechanical Details - 36 Watt Models



OUTPUT VOLTAGE & CURRENT RATINGS - 45, 70 & 100 WATT MODELS				AED
Output Power Maximum	Output Voltage Nominal	Output Current Maximum	Output Tolerance	Model Number
30 W	5 V	6.00 A	-5%, +7%	AED45US05
45 W	12 V	3.75 A	5%	AED45US12
45 W	15 V	3.00 A	4%	AED45US15
45 W	18 V	2.50 A	3%	AED45US18
45 W	19 V	2.37 A	3%	AED45US19
45 W	24 V	1.88 A	3%	AED45US24
48 W	48 V	1.00 A	2%	AED45US48
66 W	12 V	5.50 A	5%	AED70US12
69 W	15 V	4.60 A	4%	AED70US15
70 W	18 V	3.90 A	3%	AED70US18
72 W	19 V	3.70 A	3%	AED70US19
72 W	24 V	3.00 A	3%	AED70US24
72 W	48 V	1.50 A	2%	AED70US48
100 W	12 V	8.33 A	2%	AED100US12*
100 W	15 V	6.67 A	2%	AED100US15*
100 W	18 V	5.56 A	2%	AED100US18*
100 W	19 V	5.26 A	2%	AED100US19*
100 W	24 V	4.17 A	2%	AED100US24*
100 W	48 V	2.08 A	2%	AED100US48*

Mechanical Details - 45, 70 & 100 Watt Models

