



- 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 max AED36,<br>1.6 A max AED45, AED70 & AED100             |
| Inrush Current  | • 50 A at 230 VAC AED36,<br>100 A max at 230 VAC all other models |

#### Environmental

- |                     |                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating           | • 0 °C to +65 °C<br>AED36, AED 45 & AED70 derate linearly from 100% load at +40 °C to 50% load at +55 °C<br>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                                                                                                                                              |

#### Output

- |                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Hold Up Time           | • 8 ms min at 115 VAC AED36-70<br>20 ms typical at 115 VAC AED100 |
| Output Power           | • See Tables                                                      |
| Output Voltage         | • See Tables                                                      |
| Tolerance              | • See Tables                                                      |
| Ripple & Noise         | • 1% pk-pk max                                                    |
| Overvoltage Protection | • Typical 125% max                                                |
| Overcurrent Protection | • Provided                                                        |

#### EMC & Safety

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

#### General

- |                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Efficiency        | • 82% typical                                                                           |
| Isolation Voltage | • 3000 V AC Input to Output,<br>2000 V AC Input to Ground,<br>500 V AC Output to Ground |

### OUTPUT VOLTAGE & CURRENT RATINGS - 36 WATT MODELS

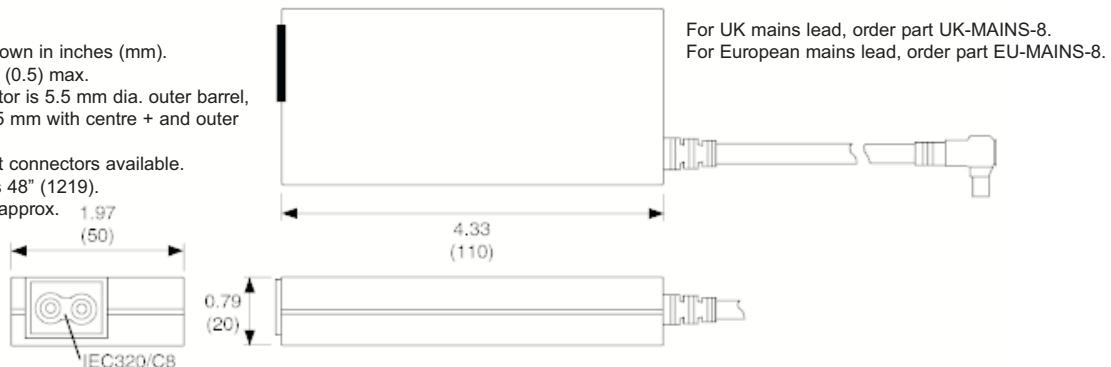
AED

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

NOTES:

- Dimensions shown in inches (mm).
- Tolerance 0.02 (0.5) max.
- Output connector is 5.5 mm dia. outer barrel, inner dia. is 2.5 mm with centre + and outer shell - polarity.
- Optional output connectors available.
- Output cable is 48" (1219).
- Weight: 170 g approx.



### 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

NOTES:

- Dimensions shown in inches (mm).
- Tolerance 0.02 (0.5) max.
- Output connector is 5.5 mm dia. outer barrel, inner dia. is 2.5 mm with centre + and outer shell - polarity.
- Optional output connectors available.
- Output cable is 48" (1219).
- Weight: 300 g approx.

