## **AEM60 Series**



- CEC 2008 & EISA 2007 Compliant 12 V
- Worldwide Medical Approvals
- 4000 VAC Isolation
- Class II Construction
- Single Outputs from 5 V to 48 V
- High Efficiency
- 3 Year Warranty

## Specification

#### Input

Input Voltage

Input Frequency Input Current

Inrush Current Input Protection No Load Input Power • 80-264 VAC, derate output power 5% <90 VAC and 10% <85 VAC

- 47-63 Hz
- 1.5 A rms max
- 80 A max at 240 VAC
- Fitted with a T2 A/250 VAC fuse in live line
- <0.5 W for ≥12 V output

### **Output**

**Output Voltage Initial Set Accuracy** 

Minimum Load

Start Up Delay

Start Up Rise Time

Hold Up Time Line Regulation

Load Regulation

Transient Response

Ripple & Noise Overvoltage Protection • See table Overload Protection

See table

- See table
- · No mimimum load required
- 3 s max
- 3 ms
- 8 ms minimum at 115 VAC
- ±1%
- See table
- 5% max deviation recovering to within 1% within 500 µs for 50% load change
- 1% max, 20 MHz bandwidth (see note 2)
- 120-150%, trip & restart (hiccup mode), auto-recovery

Short Circuit Protection • Continuous

Temperature Coefficient

• ±0.05%/°C

#### **General**

Efficiency

Isolation

Switching Frequency

**Power Density** 

**MTBF** 

- 85%, see note 5
- 4000 VAC Input to Output
- 100 kHz typical
- 4.2 W/Inch3
- 300 kHrs to MIL-HDBK-217F at 25 °C, GB

#### **Environmental**

Operating Temperature • 0 °C to +60 °C, derate linearly from 100%

Cooling Operating Humidity

Storage Temperature Operating Altitude

Vibration

Shock

load at +40 °C to 50% load at +60 °C

- Convection-cooled
- 15-95% non-condensing
- -20 °C to +85 °C
- 3000 m
- 5-500 Hz at 3 g for 10 mins on each axis
- 30 g with 18 ms half sine wave, 3 times on each axis

#### **EMC & Safety**

**Emissions** 

**Harmonic Currents** 

Voltage Flicker

**ESD** Immunity

Radiated Immunity EFT/Burst

Surge

Conducted Immunity Dips & Interruptions

Safety Approvals

- EN55011 Level B conducted & radiated
- EN61000-3-2, class A
- EN61000-3-3
- EN61000-4-2 Level 3, Perf Criteria A
- EN61000-4-3 Level 2, Perf Criteria A
- EN61000-4-4, Level 3, Perf Criteria A
- EN61000-4-5 Level 3, Perf Criteria A
- EN61000-4-6 Level 3, Perf Criteria A
- EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms Perf Criteria A, B, B
- UL60601-1, EN60601-1, IEC60601-1, CE & UKCA meets all applicable directives & legislation.

## **Models and Ratings**

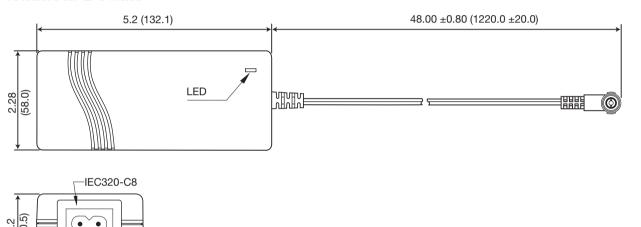


Output	Output Current	Overvoltage Setpoint	Initial Set Accuracy <sup>(1)</sup>	Regulation		Model
Voltage				Line <sup>(3)</sup>	Load(4)	Number
5 V	6.00 A	6.45 - 7.14	± 4%	± 1%	± 6%	AEM60US05
12 V	5.00 A	14.3 - 15.8	± 2%	± 1%	± 5%	AEM60US12
15 V	4.00 A	17.1 - 18.9	± 2%	± 1%	± 3%	AEM60US15
18 V	3.33 A	20.9 - 23.1	± 2%	± 1%	± 2%	AEM60US18
19 V	3.15 A	20.9 - 23.1	± 2%	± 1%	± 2%	AEM60US19
24 V	2.50 A	28.5 - 31.5	± 2%	± 1%	± 2%	AEM60US24
36 V	1.66 A	40.9 - 45.2	± 2%	± 1%	± 2%	AEM60US36
48 V	1.25 A	53.2 - 58.8	± 2%	± 1%	± 2%	AEM60US48

#### Notes

- 1. Initial set accuracy is set at 60% full load.
- 2. Add a 0.1 µF ceramic capacitor and a 10 µF electrolytic capacitor to output for ripple and noise measuring at 20 MHz bandwidth.
- 3. Line regulation is measured from 100 VAC to 240 VAC with full load.
- 4. Load regulation is measured from 20% to 100% full load (60% ±40% full load).
- 5. Minimum average of efficiencies measured at 25%, 50%, 75% and 100% load.

#### **Mechanical Details** -





Output connector is right angle jack 0.22 x 0.10 x 0.47 (5.5 x 2.5 x 12.0), center postive.

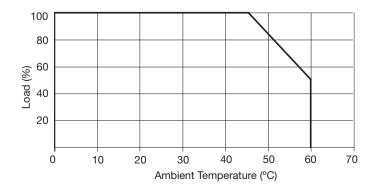
Weight: 345 g (0.77 lbs). All dimensions in inches (mm). Tolerance: ±0.02 (±0.51) except where indicated

For European mains lead order part EU-MAINS-8

For UK mains lead order part: UK-MAINS-8

For US mains lead order part US-MAINS-8

## **Derating Curves**



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