

36 Watt

- Energy Efficiency Level VI
- European CoC Tier 2
- Medical and ITE Approvals
- Class II Construction
- Optional White Versions
- Output Voltages from 9 V to 36 V
- 3 Years Warranty



The AKM36 series of desktop adaptors comply with the latest energy efficiency level VI standards with high active mode efficiency and extremely low no load power consumption. Available with a standard jack plug connector these adaptors suit a wide variety of cost sensitive industrial and medical applications while maintaining industry leading performance.

Dimensions:

AKM:
4.25 x 1.97 x 1.33" (108.0 x 50.0 x 33.8 mm)

Models & Ratings

| Output Power | Output Voltage | Output Current | Total Regulation ⁽¹⁾ | Efficiency ⁽²⁾ | Model Number ⁽³⁾ |
|--------------|----------------|----------------|---------------------------------|---------------------------|-----------------------------|
| 36 W | 9.0V | 4.0 A | 5% | 88.9% | AKM36US09C2 |
| | 12.0V | 3.0 A | 5% | 89.3% | AKM36US12C2 |
| | 15.0V | 2.4 A | 5% | 88.4% | AKM36US15C2 |
| | 18.0V | 2.0 A | 5% | 89.5% | AKM36US18C2 |
| | 24.0V | 1.5 A | 5% | 89.4% | AKM36US24C2 |
| | 30.0V | 1.2 A | 5% | 89.9% | AKM36US30C2 |
| | 36.0V | 1.0 A | 5% | 89.2% | AKM36US36C2 |

Notes

1. Total regulation includes initial set accuracy, line and load regulation.
2. Typical average value measured at 25%, 50%, 75% and 100% at 230 VAC.

3. For white case version add suffix '-W' e.g. AKM36US12C2-W. MOQ applies, contact sales for details.

Input

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|---------------------|-----------------------|---------|---------|-------|------------------------------|
| Input Voltage | 90 | | 264 | VAC | |
| Input Frequency | 47 | | 63 | Hz | |
| Input Current | | | 1.0 | A | 90 VAC |
| Inrush Current | | | 70 | A | 230 VAC, cold start at 25 °C |
| Power Factor | | | | | EN61000-3-2, class A |
| No Load Input Power | | | 75 | mW | |
| Input Protection | Internal fuse in line | | | | |

Output

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|--------------------------|---------|---------|---------|-------------|---|
| Output Voltage | 9 | | 36 | V | See Models and Ratings table |
| Minimum Load | 0 | | | A | No minimum load required |
| Start Up Delay | | | 4 | s | |
| Start Up Rise Time | | 30 | | ms | |
| Hold Up Time | 10 | | | ms | Full load and 100 VAC |
| Total Regulation | | | 5 | % | See Models and Ratings table |
| Transient Response | | | 4 | % deviation | Recovery within <1% within 500 µs for a 60% step load change at 0.15 A/µs |
| Ripple & Noise | | | 200 | mV pk-pk | Measured with 20 MHz bandwidth and 10 µF electrolytic in parallel with 0.1 µF ceramic capacitor |
| Short Circuit Protection | | | | | Continuous, trip and restart (hiccup mode) with auto recovery |
| Temperature Coefficient | | | 0.05 | %/°C | |

General

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|---------------------------|---------|------------|---------|--------|---|
| Efficiency | | 89.5 | | % | Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 115 VAC input |
| Energy Efficiency | | | | | Level VI |
| Isolation | 4000 | | | VAC | Input to Output, 2 x MOPP |
| Leakage Current | | | 50 | µA | 264 VAC, 60 Hz |
| Switching Frequency | 24 | | 70 | kHz | Variable |
| Mean Time Between Failure | 200 | | | kHrs | MIL-HDBK-217F at 25 °C GB |
| Weight | | 0.53 (240) | | lb (g) | |

Environmental

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|-----------------------|---------|---------|---------|-------|---|
| Operating Temperature | 0 | | +40 | °C | |
| Storage Temperature | -20 | | +70 | °C | |
| Operating Humidity | 5 | | 90 | % | RH, non-condensing |
| Operating Altitude | | | 5000 | m | |
| Cooling | | | | | Natural convection |
| Shock | | | | | 1 m drop onto concrete on each of 6 axes, non operating |
| Vibration | 10 | | 300 | Hz | 2 g, 0.3 decades/min, 15 mins for each of 3 axes |

EMC: Emissions

| Phenomenon | Standard | Test Level | Notes & Conditions |
|------------------|-------------|------------|--------------------|
| Conducted | EN55032 | Level B | |
| Radiated | EN55032 | Level B | |
| Harmonic Current | EN61000-3-2 | Class A | |
| Voltage Flicker | EN61000-3-3 | | |

EMC: Immunity

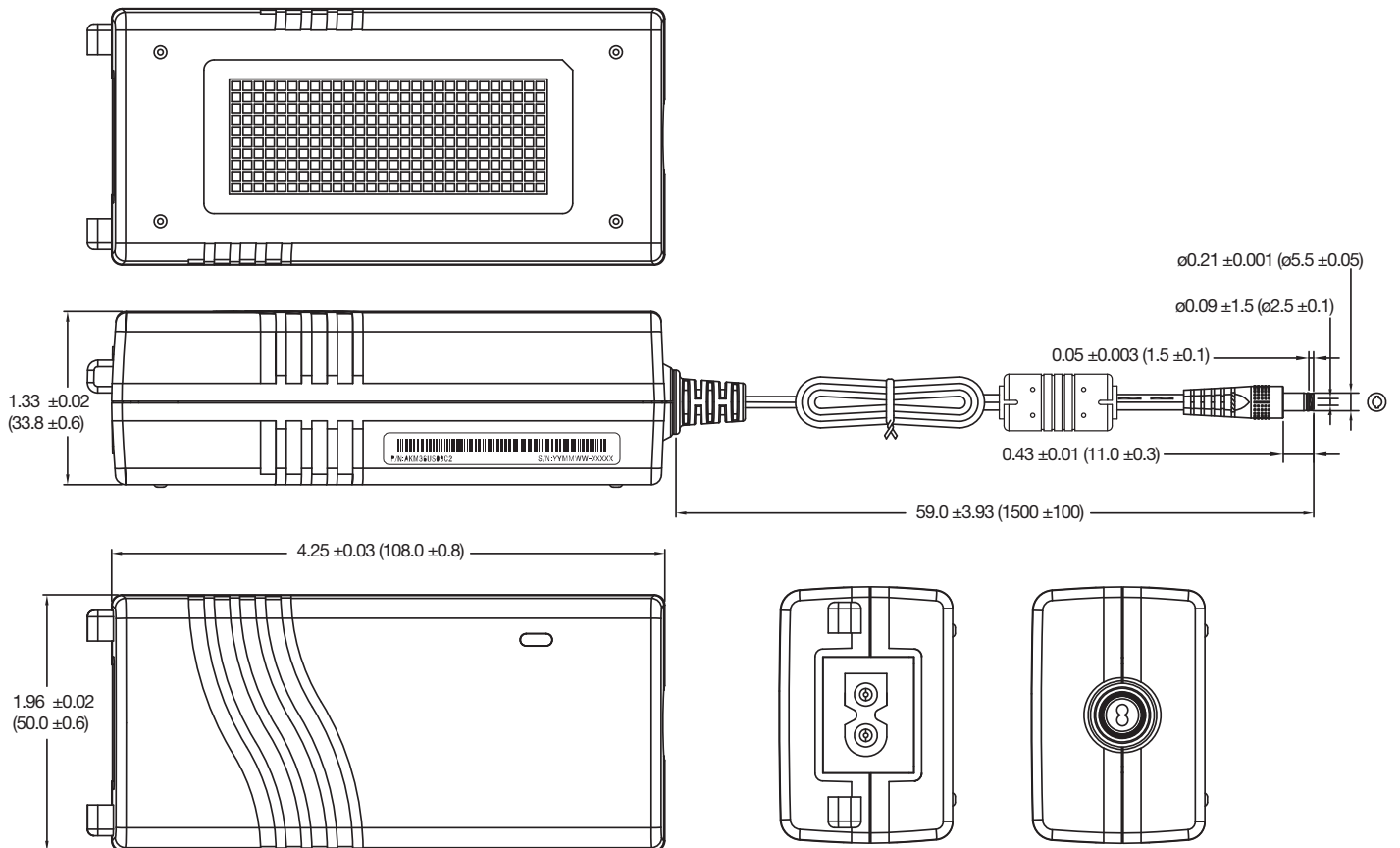
| Phenomenon | Standard | Test Level | Criteria | Notes & Conditions |
|------------------------|--------------|---------------------------|----------|--------------------|
| Medical Device EMC | IEC60601-1-2 | Ed.4.0 : 2014 | as below | |
| Low Voltage PSU EMC | EN61204-3 | High severity level | as below | |
| ESD Immunity | EN61000-4-2 | ±8 kV contact, ±15 kV air | A | |
| Radiated Immunity | EN61000-4-3 | 10 V/m | A | |
| EFT/Burst | EN61000-4-4 | Level 3 | A | |
| Surge | EN61000-4-5 | Level 2 | A | |
| Conducted Immunity | EN61000-4-6 | 6 V | A | |
| Magnetic Fields | EN61000-4-8 | 30 A/m | A | |
| Dips and Interruptions | EN61000-4-11 | Int: 100% 10 ms | A | |
| | | Dip: 30% 500 ms | A/B | High Line/Low Line |
| | | Int: 100% 5000 ms | B | |
| | EN60601-1-2 | Dip: 30% 25 AC Cycles | A/B | High Line/Low Line |
| | | Int: 100% 0.5 AC Cycle | A | At 8 angles |
| | | Int: 100% 1 AC Cycle | A/B | High Line/Low Line |
| | | Int.: >95% 5000 ms | B | |

Safety Approvals

| Safety Agency | Safety Standard | Notes & Conditions |
|---------------|---|------------------------|
| UL | UL 62368-1 & CAN/CSA C22.2 No. 62368-1-14 | Information Technology |
| TUV | EN62368-1:2014/A11:2017 | |
| CB | IEC60950-1:2005 Ed 2 / IEC62368-1:2014 | |
| CE | LVD | |
| AU/NZ | AU/NZ 60950.1 | |
| UL | ANSI/AAMI ES 60601-1 | Medical, 2 x MOPP |
| CSA | CSA C22.2 No. 60601 | |
| TUV | EN60601-1 | |
| CB | IEC60601-1 | |

Mechanical Details

AKM36USXXC2



Notes

1. Dimensions in inches (mm).
2. Weight: 0.53 lbs (240 g).

3. Output plug: ø5.5 x ø2.5 x 11.0mm, centre positive.



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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