



3 Watt, AIC Series, Encapsulated Power Supply

- Universal AC Input
- Fully Encapsulated, PCB Mounting Plastic Case
- Extra Wide Temperature Range From -40°C
- Short Circuit, Over Voltage, Over Power Protected
- Convection Cooled
- Full Approvals: UL/cUL/CE
- Low Ripple And Noise
- <0.3 Watts No Load Input Current
- 3 Years Warranty

A Type



B Type



Specification

Input Voltage..... 90~264 VAC, 47~63 Hz (120-370 VDC)
 Inrush Current..... 20 A @ 115 VAC, 50 A @ 230 VAC
 Output Voltage..... See table below, +/-10% accuracy
 Load Regulation (0% to 100% load) +/-5% (3.3V o/p) +/-2% (5 to 24V o/p)
 Line Regulation (full range)..... +/-5% (3.3V o/p), +/-2% (5 to 24V o/p)
 Over Voltage Protection..... Zener diode clamp
 Short Circuit Protection..... Hiccup mode, indefinite (automatic recovery)
 Hold Up Time..... 15 ms, min
 Input to Output Isolation..... I/P-O/P: 3750 VAC,
 Operating Temperature -40 to +85 °C, see derating curve
 Storage Temperature..... -40 to +125 °C
 Switching Frequency..... 132 +/-8 kHz
 Safety Standards..... UL/cUL, CE
 EMC..... EN55022 Class B, EN55024
 MTBF..... >350K hours @ 25°C (MIL-HDBK-217F)
 Mechanical (PCB Mount Encapsulated, 35.7 (L) x 22 (H) x 19 (W) mm
 Connections Input & Output..... PCB mounting: through hole pins or PCB Lugs

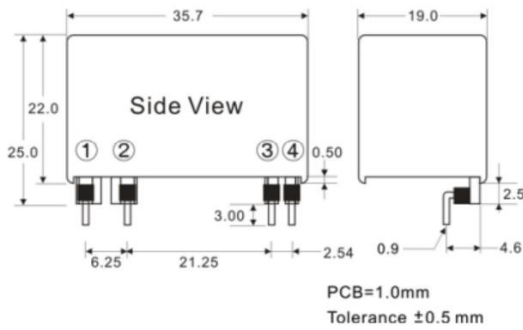
Models and Ratings

| Model | Output Voltage | Output Current | Efficiency |
|-----------------------------|----------------|----------------|------------|
| AIC-3.3S-AP | 3.3 V | 900 mA | 69% |
| AIC-5S-AP | 5.0 V | 600 mA | 71% |
| AIC-9S-AP | 9.0 V | 333 mA | 76% |
| AIC-12S-AP | 12.0 V | 250 mA | 76% |
| AIC-15S-AP | 15.0 V | 200 mA | 76% |
| AIC-24S-AP | 24.0 V | 125 mA | 77% |

Please see next page for mechanical drawings.

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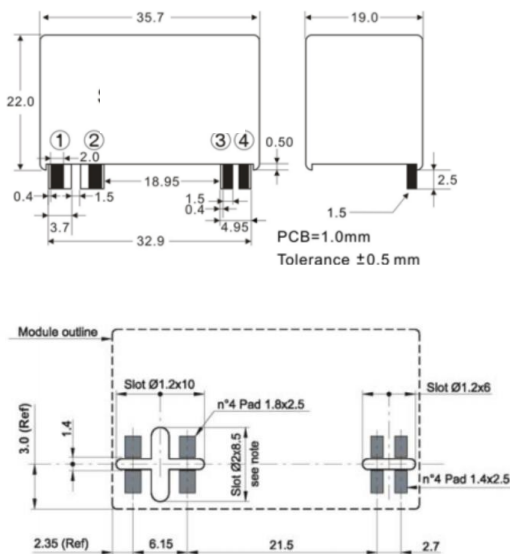
Mechanical Details (A Type)



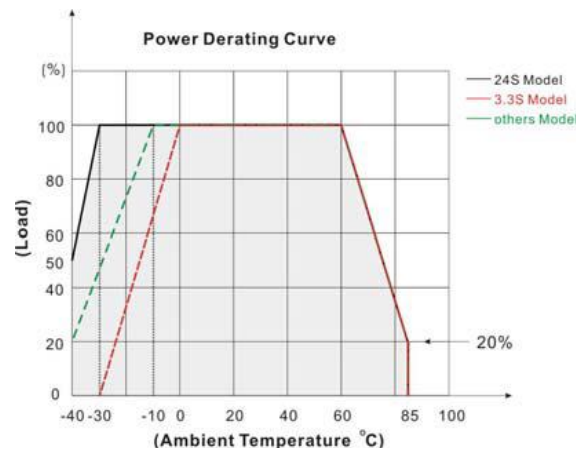
Pinout

| Pin | Function Single o/p |
|-----|------------------------|
| 1 | AC IN (Live) |
| 2 | AC IN (Neutral) |
| 3 | + DC OUT |
| 4 | - DC OUT |

Mechanical Details (B Type)



Derating Curve



NOTE:

The 2x8.5mm slot is not mandatory
This slot is useful when high creepage between PCB tracks is required

Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

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