AC-DC

110 WATT AC-DC CONVERTER

DT-AD110-220S24

- **Input Range 90~265 VAC**
- **1500 VAC Isolation**
- **Operating Temperature -30°C ~ +55°C**
- **High Efficiency up to 87%**
- **SCP, OVP, OCP, OTP**
- **Size: 122mm (L) x 51mm (W) x 28.5mm (H)**
- **Conduction cooled**
- **Weight ≤ 500g**
- **1 Year Warranty**

Specification

Input

Input Voltage	• 90-265 VAC, Typ. 220 VAC
Input Frequency	• 47-63 Hz, Typ. 50/60 Hz
Power Factor	• ≥0.9 at full load

Output

Output Voltage	• +24 VDC ± 0.3 V
Output Current	• 4.5 A
Output Power	• 110-Watt max.
Voltage Accuracy	• ≤ ±1%
Line Regulation	• ≤ ±1% at connector end
Load Regulation	• ≤ ±2% at connector end
Ripple & Noise	• 2% pk-pk at connector end
Overvoltage Protection	• 110 ~ 130%
Overcurrent Protection	• 110 ~ 200%
Short Circuit Protection	• Auto Recovery
Over Temp. Protection	• Auto Recovery

General

Efficiency	• Up to 85% at full load
Isolation	• 1500 VAC Input to Output Leakage current ≤ 10mA/60s • 1500 VAC Input to Ground Leakage current ≤ 10mA/60s • 500 VDC Output to Ground Leakage current ≤ 10mA/60s
Insulation Resistance	• 100 MΩ, DC 500V • 100 MΩ, DC 500V • 100 MΩ, DC 500V

Environmental

Operating Temperature	• -40 ˚C to +85 ˚C
Cooling	• Baseplate, Conduction cooling
Storage Temperature	• -50 ˚C to +95 ˚C

EMI/EMC

Conducted Emission (CE102)	• Built to meet MIL-STD-461F
Radiated Emission (RE102)	• Built to meet MIL-STD-461F

Notes

1. MIL-STD-461F (Conducted & Radiated Emission)
2. Safety approvals cover frequency 47-63 Hz.

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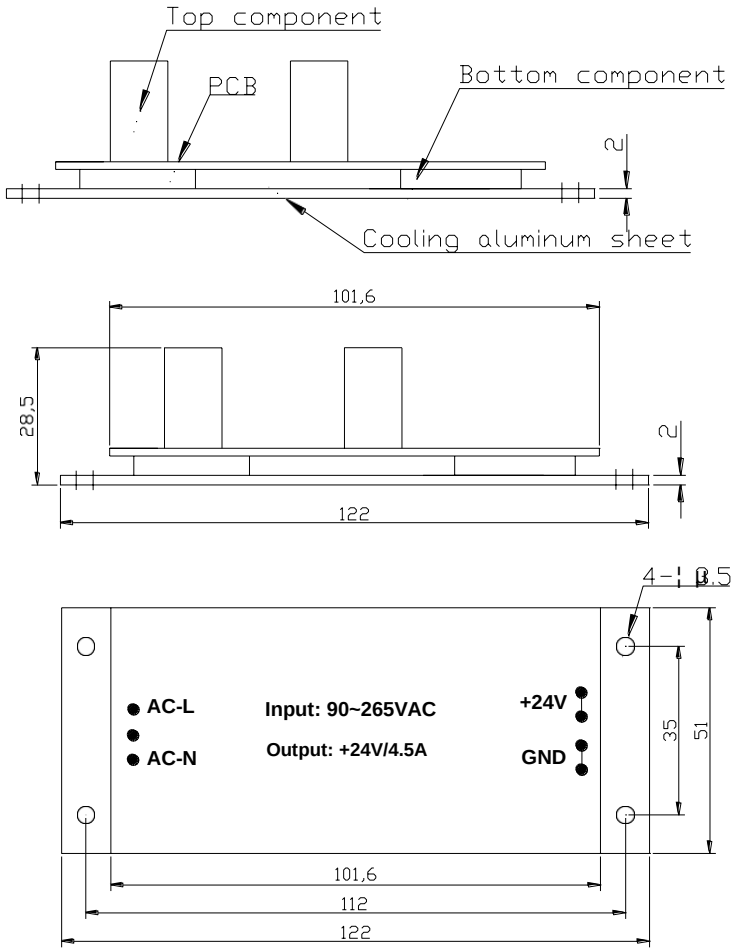
Mechanical Drawing