

10 Watts

AEE01,02

Total Power: 10 Watts
Input Voltages: 48V, 24V
No. of Outputs: Single

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Special Features

- 10 W, Single output
- 2:1 Input range
- 1.0" x 2.0" x 0.33 case
- Replaces AA10B
- Industry standard package
- Low Profile
- Low Cost

Environmental

Operating base temperature range:

-25°C to +95°C

Storage temperature: -40°C to +105°C

MTBF: 3 Million Hours (Belcore TR332)

Safety

- | | |
|-----|-------------------------|
| UL | UL1950 Recognition |
| CSA | CSA22.2-950 Recognition |
| TUV | EN60950 Recognition |

Electrical Specs

Input

Input range 18 to 36 VDC
36 to 72 VDC

Efficiency 79% typical (5V)

Output

Voltage tolerance $\pm 1.0\%$ ($\pm 2.0\%$ for 3.3V)
Overall regulation $\pm 1\%$ max
Noise/ripple 1% (mV P-P)
Transient response 200 usec typical (50% step load change to within 5%Vo)

Temperature Regulation $\pm 0.02\% \text{Vo}/^\circ\text{C}$

Switching frequency 330kHz

Isolation

I/O isolation 500 VDC
Isolation Resistance 300 Mohms

AMERICAS

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EUROPE

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ASIA

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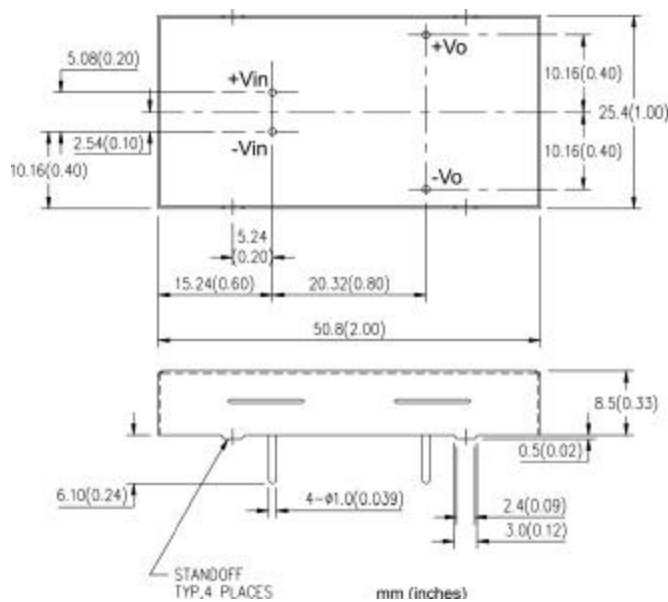
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CASTEL

Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
18-36 V	3.3 @ 2.5 A	76%	AEE02F24
18-36 V	5.0 @ 2.0 A	78%	AEE02A24
18-36 V	8.0 @ 1.25A	78%	AEE01L24
18-36 V	12.0 @ 0.84 A	82%	AEE00B24
18-36 V	15.0 @ 0.67 A	82%	AEE00C24
36-72 V	3.3 @ 2.5 A	77%	AEE02F48
36-72 V	5.0 @ 2.0 A	79%	AEE02A48
36-72 V	8.0 @ 1.25 A	77%	AEE01L48
36-72 V	12.0 @ 0.84 A	84%	AEE00B48
36-72 V	15.0 @ 0.67 A	86%	AEE00C48

Mechanical Dimensions and Pin Assignments



Notes:

- 20 MHz bandwidth. An external 0.1 uF ceramic capacitor is recommended to be placed from +V out to comm.
- All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- All specifications subject to change without notice.
- Mechanical drawings are for reference only.