AED/ALD17

150 Watts

Total Power: 150 Watts Input Voltage: 48V # of Outputs: Single

Special Features

- High efficiency (96% Typical)
- Industry standard package 16th Brick 0.90" x 1.30"
- High capacitive load limit on start-up
- Output Enable Pin
- Undervoltage lockout
- Over Temperature Protection
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS



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Electrical Specifications

Input

Input range 36V to 55V

Efficiency 96%@ 9.6V (typical)

Over Voltage Protection 60V typical Input UVLO 36 to 37.5V

Output

Output current 17A max

Line regulation -25% / +15% Vo, nom
Load regulation 5% Vo (typical)
Noise/ripple¹ 90mV (typical)
Over current limit Auto-restart

Over temperature protection 115°C average PCB temperature (autorecovery)

Switching frequency 165kHz

Control

Enable TTL compatible (positive or negative enable logic)

Isolation Voltage

Input to Output 2000Vdc max

Environmental Specifications Operating ambient temperature range -40°C to +85°

Operating ambient temperature range -40°C to +85°C ambient Storage temperature -55°C to +125°C MTBF >1 million hours

Safety
UL, cUL 60950
TUV EN60950





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Ordering Information Input Voltage Output Current Efficiency² Model Number 38 - 55V 9.6V 17A 96% Typ A(X)D17Q50(N)-(6)(L)

Options:

(X) : "L" = Open Frame / Low Profile

"E" = Heatplate Construction

(N) : "N" = designates Negative Logic Enable (default is Positive Enable with no suffix "N" required)

(6) : "-6" = 3.7mm nominal pin length (default is 5mm nominal pin length with no suffix "-6" required)

(L) : "L" = RoHS Compliant (RoHS 6)

without "L" = RoHS Compliant with lead (Pb) in solder exemption (RoHS 5)

Pin Assignments

Single Output

- 1. +Vin
- 2. Enable
- 3. -Vin
- 4. -Vout
- 5. Blank
- 6. Blank
- Blank
 +Vout

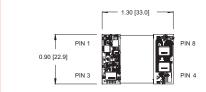
Notes:

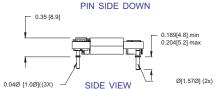
- 20 MHz bandwidth. External 10 uF tant. capacitor in parallel with 1 uF ceramic capacitor placed across the output and secondary return ground.
- giound.

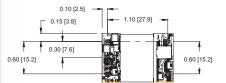
 2. Efficiency measurements are typical values taken at 48V input, nominal output, full load and T_A = 25°C.
- 3. All specifications are typical at nominal line, full load and T_A = 25°C unless otherwise noted.
- All specifications subject to change without notice.
- Mechanical drawings are for reference only. Dimensions are in inches [millimeters]. Pin placement tolerance ± 0.005 [0.12]. Mechanical Tolerance ± 0.02 [0.5]. Pin diameter, Ø = 0.06" for Pin 4 (-Vout) and Pin 8 (+Vout), the rest of the pins are Ø = 0.04".
- Technical Reference Notes should be consulted for detailed information when available.
- 7. Warranty 1yr.

Mechanical Drawing

ALD Series

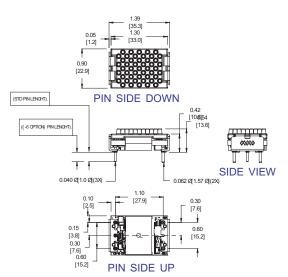






PIN SIDE UP

AED Series



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