Embedded Power for
Business-Critical Continuity

AED/ALD17

150 Watts

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

RoHS 2002/95/EC

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

Safety

UL, cUL 60950
TUV EN60950

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/ripple[1]	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°C ambient
Storage temperature	-55°C to +125°C
MTBF	>1 million hours

ASTEC

EMERSON Network Power

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Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency[2]	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

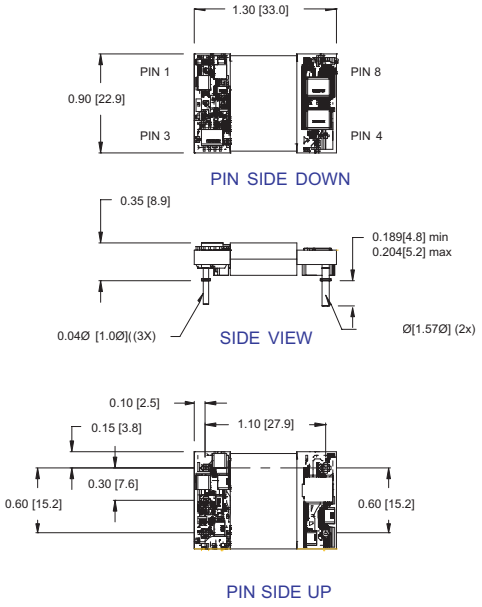
1. +Vin
2. Enable
3. -Vin
4. -Vout
5. Blank
6. Blank
7. Blank
8. +Vout

Notes:

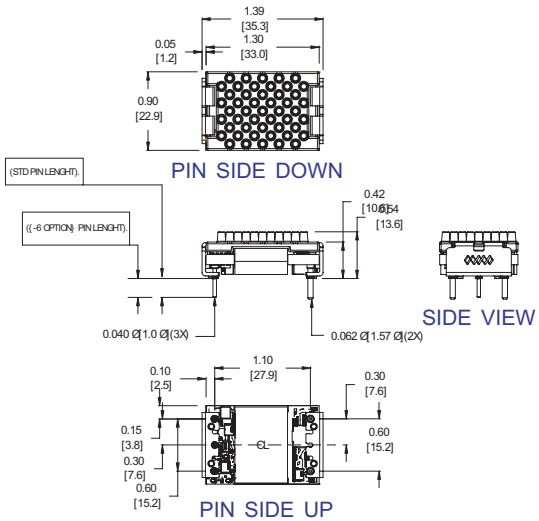
1. 20 MHz bandwidth. External 10 uF tant. capacitor in parallel with 1 uF ceramic capacitor placed across the output and secondary return ground.
2. Efficiency measurements are typical values taken at 48V input, nominal output, full load and T_A = 25°C.
3. All specifications are typical at nominal line, full load and T_A = 25°C unless otherwise noted.
4. All specifications subject to change without notice.
5. Mechanical drawings are for reference only. Dimensions are in inches [millimeters]. Pin placement tolerance ± 0.005 [0.127]. Mechanical Tolerance ± 0.02 [0.5]. Pin diameter, ∅ = 0.06" for Pin 4 (-Vout) and Pin 8 (+Vout), the rest of the pins are ∅ = 0.04".
6. Technical Reference Notes should be consulted for detailed information when available.
7. Warranty 1yr.

Mechanical Drawing

ALD Series



AED Series



* This is a Preliminary Data Sheet. Astec Power reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application.

Americas
5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 (760) 930 4600
Facsimile: +1 (760) 930 0698

Europe (UK)
Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)
14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:
www.powerconversion.com
techsupport.embeddedpower@emerson.com

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