ALO15B50

180 Watts

Total Power: 180 Watts Input Voltage: 48V # of Outputs: Single

Special Features

- High efficiency (96% Typical)
- Industry standard package 8th Brick 0.90" x 2.30" x 0.38"
- 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





Rev. 04.02.08 ALO15B50 1 of 2

Electrical Specifications

InputInput range36V to 55VEfficiency96%@ 12V (typical)Over Voltage Protection60V typicalInput UVLO35 to 36V

Output

Output current 0A to 15 max (180W output power)

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

Over current limit 115% IO,MAX typical (autorecovery)

Over temperature protection 125°C average PCB temperature (autorecovery)

Switching frequency 200kHz

Control

Enable Positive and negative logic options

Isolation Voltage

Input to Output 1500Vdc 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





Rev. 04.02.08 ALO15B50 2 of 2

Americas

5810 Van Allen Way Carlsbad, CA 92008

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

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower. com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2008 Emerson Electric Co.

Ordering Information Input Voltage Output Voltage Output Current Sefficiency Model Number ALO15B50(N)-(6)(L)

Options:

Enable Function "N" = negative logic enable

without "N" = positive logic enable (default)

Pin Length Option "-6" = 3.7mm (nominal)

Standard pin length is 5mm nominal

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

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

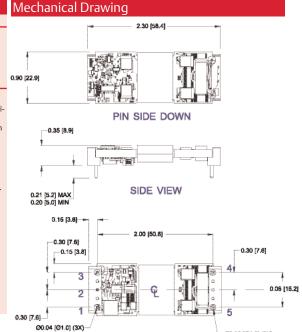
Pin Assignments

Single Output 1. +Vin

- 2. Enable
- 3. -Vin
- 4. -Vout
- 5. +Vout

Note

- 20 MHz bandwidth. External 10 uF tant. capacitor in parallel with 1 uF ceramic capacitor placed across the output and secondary return around.
- 2. Efficiency measurements are typical values taken at 48V input, 12V ouput, full load and
- All specifications are typical at nominal line, full load and T_A = 25°C unless otherwise noted.
- All specifications subject to change without
- 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, Ø = 0.06" for Pin 4 (-Vout) and Pin 5 (+Vout), the rest of the pins are Ø = 0.04".
- 6. Technical Reference Notes should be consulted for detailed information when available.
- 7. Warranty 1yr.



PIN SIDE UP

Ø0.06 [Ø1.6] (2X)

^{*} 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.