ALO15B50

180 Watts

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

RoHS 2002/95/EC

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
- 12V Intermediate Bus Voltage for DPA application
- Output Enable Pin
- Undervoltage lockout
- Over Temperature Protection
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS

Safety

UL, cUL 60950-1
TUV EN60950-1

Electrical Specifications

Input	
Input range	36V to 55V
Efficiency	96%@ 12V (typical)
Over Voltage Protection	60V typical
Output	
Output current	0A to 15 max (180W output power)
Line regulation	-25% / +15% Vo, nom
Load regulation	5% Vo (typical)
Noise/ripple[1]	90mV (typical)
Over current limit	115% IO,MAX typical (autorecovery)
Over temperature protection	125°C average PCB temperature (autorecovery)
Switching frequency	220kHz
Control	
Enable	Positive and Negative logic options
Isolation Voltage	
Input to Output	1500Vdc max

Environmental Specifications

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

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Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency[2]	Model Number
36 - 55V	12V	15A	96% Typ	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

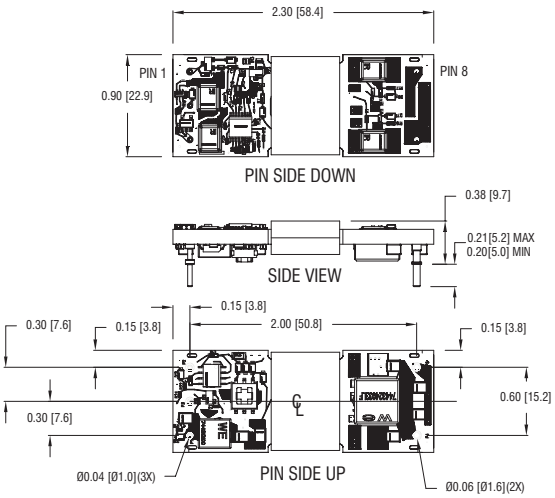
Single Output

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

Notes:

1. Measured at 20 MHz bandwidth with external 10 µF tant. capacitor in parallel with 1 µF ceramic capacitor placed across +vout and -Vout.
2. Efficiency measurements are typical values taken at 48V input, 12V ouput, 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



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* 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.