

ALO15B50

180 Watts

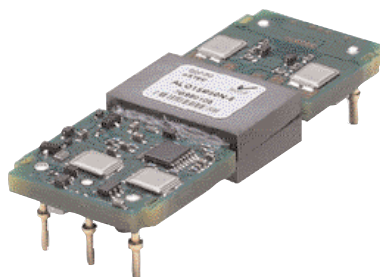
Total Power: 180 Watts
Input Voltage: 48V
of Outputs: Single

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

Safety

UL, cUL 60950
TUV EN60950



Rev. 04.02.08
ALO15B50
1 of 2

Electrical Specifications

Input	
Input range	36V to 55V
Efficiency	96%@ 12V (typical)
Over Voltage Protection	60V typical
Input UVLO	35 to 36V
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	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°C ambient
Storage temperature	-55°C to +125°C
MTBF	>1 million hours



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

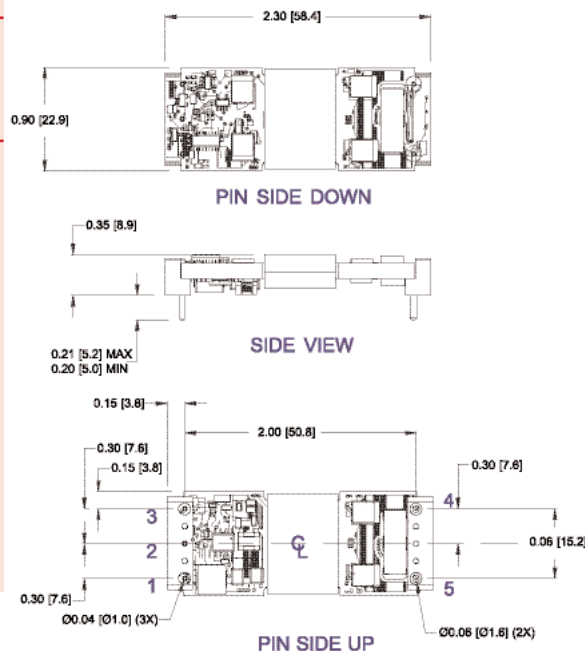
Single Output

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

Notes:

1. 20 MHz bandwidth. External 10 μ F tant. capacitor in parallel with 1 μ F ceramic capacitor placed across the output and secondary return ground.
2. Efficiency measurements are typical values taken at 48V input, 12V output, full load and $T_A = 25^\circ\text{C}$.
3. All specifications are typical at nominal line, full load and $T_A = 25^\circ\text{C}$ 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, $\varnothing = 0.06$ " for Pin 4 (-Vout) and Pin 5 (+Vout), the rest of the pins are $\varnothing = 0.04$ ".
6. Technical Reference Notes should be consulted for detailed information when available.
7. Warranty 1yr.

Mechanical Drawing



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