



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AEH08U48 53V @ 7.55 A

Total Power: 400 Watts
Input Voltage: 48 V
of Outputs: Single



Special Features

- High power converter
- High efficiency (94% Typical)
- Industry standard package
Half Brick 2.30" x 2.40" x 0.50"
- High capacitive load limit on start-up
- Industry standard features:
Input UVLO, Output Enable, Adjust, Differential Remote Sense; OCP, OVP, OTP
- Reinforced Insulation
- EU directive 2002/95/EC compliant for RoHS

Electrical Specifications

Input	
Input range	38 V to 60 V
Efficiency	94% @ 53Vo (at nominal conditions)
Output	
Output current	7.55 A max
Line regulation	0.2% Vo, (max)
Load regulation	100 mV (max)
Noise/ripple ¹	150 mV (max)
Over current limit	Auto-restart
Over temperature protection	125 °C average PCB temperature (autorecovery)
Switching frequency	400 kHz
Control	
Enable	TTL compatible (positive or negative enable logic)
Isolation Voltage	
Input to Output	2250Vdc max

Environmental Specifications

Operating ambient temperature range	-5 °C to +55 °C ambient
Storage temperature	-55 °C to +125 °C
MTBF	1.5 Mhrs @ 40 °C

Safety

UL, cUL 60950-1
TUV EN60950-1

Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number
38 - 60 V	53.0 V	7.55 A	94% Typ	AEH08U48(N)-(6)(L)

Options:

- (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

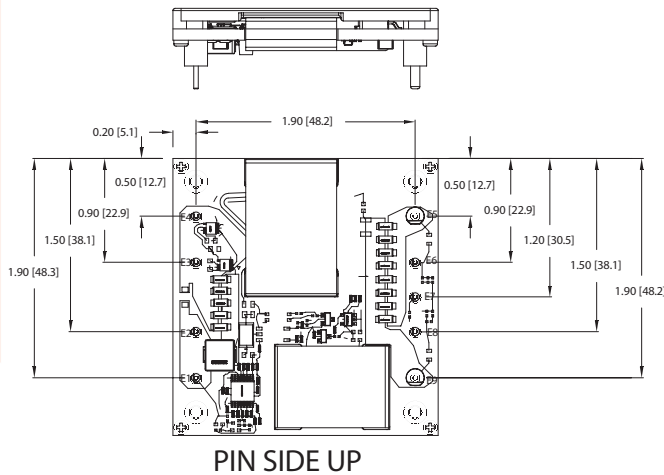
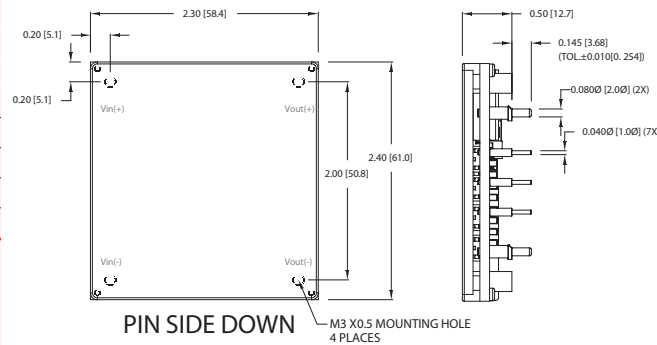
1. +Vin
2. Enable
3. Case Ground
4. -Vin
5. -Vout
6. -Sense
7. Trim
8. +Sense
9. +Vout

Notes:

1. Measured at 20 MHz bandwidth with external 0.1 μ F ceramic capacitor in parallel with 2X 100 μ F E-cap / 63 V rated placed across +Vout and -Vout; 100 μ F e-cap or equivalent placed across +Vin and -Vin.
2. Efficiency measurements are typical values taken at 48 V input, nominal 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].
6. Technical Reference Notes should be consulted for detailed information when available.
7. Warranty 2 years.

Mechanical Drawing

AEH08U48 Series



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