# AEH08U48 53V @ 7.55 A

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



- 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

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# **Electrical Specifications**

38 V to 60 V
94% @ 53Vo (at nominal conditions)
7.55 A max
0.2% Vo, (max)
100 mV (max)
150 mV (max)
Auto-restart
125 °C average PCB temperature (autorecovery)
400 kHz
TTL compatible (positive or negative enable logic)
2250Vdc max

# Environmental Specifications Operating ambient temperature range -5 °C to +55 °C

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



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Ordering	Information			
Input Voltage	Output Voltage	Output Current	Efficiency <sup>2</sup>	Model Number
38 - 60 V	53.0 V	7.55 A	94% Typ	AEH08U48(N)-(6)(A)(L)
Ontions:				

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)

(A) : "A" = M2.5 screw clearance mounting holes non-threaded

(default is M3.0x0.5 threaded with no suffix "A" required)

## Pin Assignments

# Single Output

# +Vin Enable

- 3. Case Ground
- J. Case Groun
- 4. -Vin
- 5. -Vout
- 6. -Sense
- 7. Trim 8. +Sense
- 9. +Vout

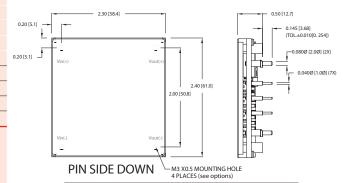
#### Notes:

- 1. Measured at 20 MHz bandwidth with external 0.1  $\mu$ F ceramic capacitor in parallel with 2X 100  $\mu$ F e-cap / 63 V rated placed across +Vout and -Vout; 100  $\mu$ F e-cap or equivalent placed across +Vin and -Vin.
- Efficiency measurements are typical values taken at 48 V input, nominal output, full load and T<sub>A</sub> = 25 °C.
   All specifications are typical at nominal line, full
- All specifications are typical at nominal line, it load and T<sub>A</sub> = 25 °C unless otherwise noted.
   All specifications subject to change without
- notice.

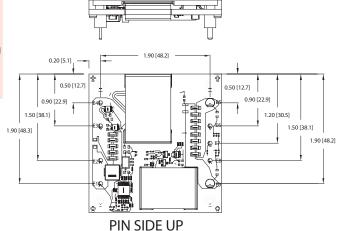
  5. Mechanical drawings are for reference only.
  Dimensions are in inches [millimeters].
  Pin placement tolerance ± 0.005 [0.127].
  Mechanical Tolerance ± 0.02 [0.5].
- 6. Technical Reference Notes should be consulted for detailed information when available.
- 7. Warranty 2 years.

## Mechanical Drawing

#### **AEH08U48 Series**



Mounting	Mounting Hole Options			
-6AL	M2.5 clearance hole, non-threaded			
Default	M3.0 x 0.5 threaded			



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