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

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

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 Model Number Input Voltage Output Voltage Output Current Efficiency² Model Number 38 - 60 V 53.0 V 7.55 A 94% Typ AEH08U48(N)-(6)(L) Options: AEH08U48(N)-(6)(L) AEH08U48(N)-(6)(L)

(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

+Vin
 Enable

3. Case Ground

4. -Vin

5. -Vout

6. -Sense7. Trim

9 +Vout

8. +Sense

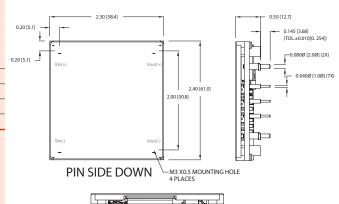
Notes:

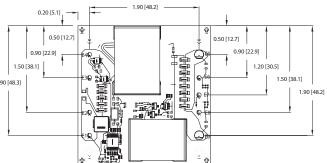
- Measured at 20 MHz bandwidth with external 0.1 μF ceramic capacitor in parallel with 2X 100 μF E-cap / 63 V rated placed across +Vout and -Vout; 100 μF e-cap or equivalent placed across +Vin and -Vin.
- 2. Efficiency measurements are typical values taken at 48 V input, nominal output, full load and T_A = 25 °C.
- 3. All specifications are typical at nominal line, full load and T_A = 25 °C unless otherwise noted.
- All specifications subject to change without notice.
- Mechanical drawings are for reference only. Dimensions are in inches [millimeters]. Pin placement tolerance ± 0.005 [0.127]. Mechanical Tolerance ± 0.02 [0.5].
- Technical Reference Notes should be consulted for detailed information when available.

 1.90 [48.3]
- 7. Warranty 2 years.

Mechanical Drawing

AEH08U48 Series





PIN SIDE UP

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