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						
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)

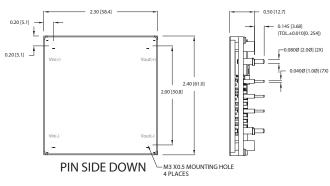
without "L" = RoHS Compliant with Lead (Pb) in solder exemption (RoHS 5)

Pin Assignments Single Output 1. +Vin 2. Enable 3. Case Ground 4. -Vin 5. -Vout -Sense 7. Trim 8. +Sense 9 +Vout Notes:

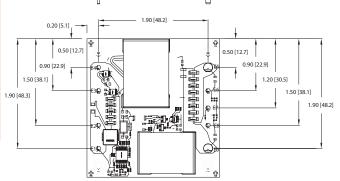
- 1. Measured at 20 MHz bandwidth with external $0.1~\mu F$ ceramic capacitor in parallel with 2X $100~\mu F$ E-cap / 63~V rated placed across +Vout and -Vout; $100\,\mu\text{F}$ e-cap or equivalent placed across +Vin and -Vin.
- 2. Efficiency measurements are typical values taken at 48 V input, nominal output, full load and $T_A = 25$ °C.
- All specifications are typical at nominal line, full load and $T_A = 25$ °C unless otherwise noted.
- 4. All specifications subject to change without
- 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]
- Technical Reference Notes should be consulted 1.90 [48.3] for detailed information when available.
- Warranty 2 years.

Mechanical Drawing

AEH08U48 Series



J 150.



PIN SIDE UP

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