AEH25 Series

of Outputs: Single

Special Features

baseplate design

start-up

Industry Standard Half Brick

• Low output ripple and noise

• High capacitive load limit on

• Industry standard features:

Input UVLO, OCP, OVP, OTP;

Remote Sense, On/Off Enable

Output Adjust, Differential

• Regulation to zero load Fixed requency switching

Meets Basic Insulation

compliant for RoHS

EU directive 2002/95/EC



Input Input range: 36-75 Vdc Input surge: 100 V / 100 ms Efficiency: 93% @ 12 V (typical)

Output

Regulation: < 2% (Line, Load, Temp)

120 mV (typical) Ripple and noise1:

Up to 10% Vout Remote sense:

Output voltage adjust range: ± 10% of nominal output

180 mV typical output deviation Transient response:

25% step change 300 µs recovery time

Overvoltage protection: 115% nominal output Overcurrent protection: 116% lo nominal

Isolation voltage: 1500 Vdc

Control

TTL compatible (positive or negative enable logic control options) Enable:

300 Watts

300 Watts (12 V @ **Total Power:**

25 A) **Input Voltage:** 48 V

Safety

UL, cUL 60950-1 Recognized EN60950-1 Licensed TUV

Environmental Specifications

Operating temperature: -40 °C to +100 °C baseplate -55 °C to +125 °C Storage temperature: Overtemperature protection: 110 °C typical MTBF: > 1 mission hours













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Rev. 3.4.09_179 AEH25 Series

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Notes:

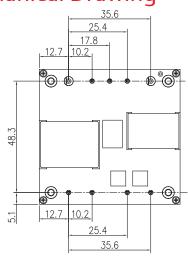
Efficiency values taken at nominal input, full load condition, 25 °C ambient temperature

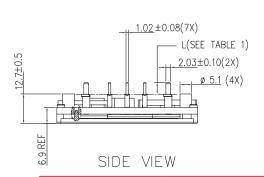
(N): "N" = designates Negative Logic Enable (default is Positive with no suffix "N" required)

(L): "L" = RoHS compliant (RoHS 6) / "Blank" = RoHS compliant with Lead (Pb) in solder exemption (RoHS 5)

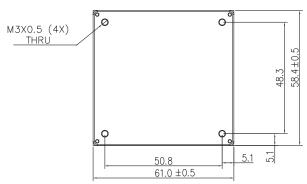
- -5CL = RoHS compliant (RoHS 6), 4.5mm nominal pin length

Mechanical Drawing





PIN	SIDE	TOP



PIN SIDE BOTTOM

Pin Assignments +Vin Pin 1 Pin 2 Enable (On/Off) Case (AEH) Pin 3 Pin 4 -Vin Pin 5 - Output Pin 6 - Sense Pin 7 Trim Pin 8 + Sense Pin 9 + Output

Notes:

- 1. Measured at 20 MHz bandwidth with external 10uF tantalum in parallel with 0.1uF/50V-7R ceramic capacitor placed across the output.
- 2. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- 3. All specifications subject to change without notice. Mechanical drawings are for reference only.
- 4. Technical Reference Notes should be consulted for detailed information when available.
- 5. Warranty: 1yr