AEH25 Series 300 Watts

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

25 A) **Input Voltage:** 48 V # of Outputs: Single

Special Features Industry Standard Half Brick

- baseplate design • Low output ripple and noise
- High capacitive load limit on start-up
- Regulation to zero load
- Fixed requency switching
- Industry standard features: Input UVLO, OCP, OVP, OTP;
-Output Adjust, Differential Remote Sense, On/Off Enable
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS

Safety

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



Rev. 3.4.09_179 AEH25 Series



Electrical Specifications

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:

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





Ordering Information **Model Number** Input Voltage **Output Voltage Output Current** Efficiency² 36 V to 75 V 12 V 25 A 93% AEH25B48(N)-6C(L) 36 V to 75 V 12 V 25 A 93% AEH25B48N-5CL

Notes:

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

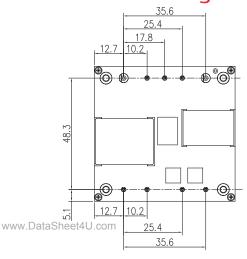
Options:

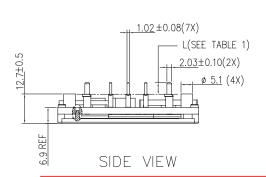
(N): "N" = designates Negative Logic Enable (default is Positive with no suffix "N" required)

(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

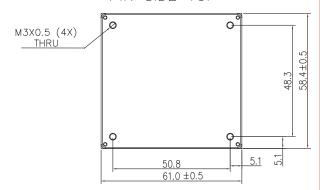
Mechanical Drawing





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





PIN SIDE BOTTOM

Notes:

- 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.
- 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

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