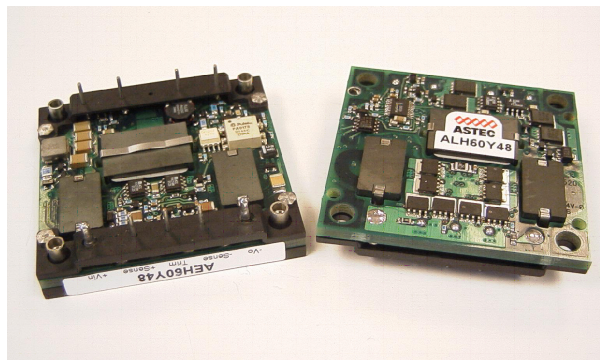


60Amps

AEH60

ALH60 (Open Frame)

Ultra High Efficiency Half Brick



Total Power: 200 Watts (3.3V @ 60A)
 Input Voltages: 48 V
 No. of Outputs: Single

Electrical Specs

Input

Input range 36-75 VDC
 Input Surge 100V / 100ms
 Efficiency 91% @ 3.3V (Typical)

Control

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

Output

Regulation (Line, Load, Temp) <2%
 Ripple and Noise¹ 2% typical (100mVp-p max)
 Remote Sense Up to 10%Vout
 Output Voltage Adjust Range $\pm 10\%$ of nominal output
 Transient Response 60mV typical output deviation
 25% step change
 150 μ S recovery time
 Overvoltage Protection 135% nominal output (latching)
 Over Current Protection 115% of full load (latching)
 Over Temperature Protection Shutdown - autorecovery mode
 Isolation Voltage 1500 Vdc

Special Features

- High efficiency, 3.3V@ 91% (Typical)
- Baseplate (AEH) or Open frame (ALH) design
- Low output ripple and noise
- High capacitive load limit on start-up
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching
- Industry Std features: Input UVLO, OCP, OVP, OTP; Short ckt protection; $\pm 10\%$ Output Adjust
- Positive or Negative enable logic control option
- Meets Basic Insulation

Environmental

Operating temperature
 -40°C to +100°C Baseplate (AEH60)
 -40°C to +85°C Ambient (ALH60)
 Storage temperature: -55°C to +125°C
 Overtemperature protection: 115°C PCB Temperature (Typical)
 MTBF: >1 million hours

Safety

UL, cUL 60950 Recognized
 TUV EN60950 Licensed

AMERICAS

5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 44 (1384) 842-211
Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
Tower1, Metroplaza
223, Hing Fong Road
Fwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



AEH60 / ALH60

Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
48V	3.3V @ 60A	91% (Typ)	AEH60F48(N)
48V	2.5V @ 60A	90% (Typ)	AEH60G48(N)
48V	2.5V @ 60A	90% (Typ)	AEH60G48N-6T (see note 3)
48V	1.8V @ 60A	89% (Typ)	AEH60Y48(N)
48V	1.2V @ 60A	85% (Typ)	AEH60K48(N)
48V	3.3V @ 60A	91% (Typ)	ALH60F48(N)
48V	2.5V @ 60A	90% (Typ)	ALH60G48(N)
48V	1.8V @ 60A	89% (Typ)	ALH60Y48(N)
48V	1.2V @ 60A	85% (Typ)	ALH60K48(N)

OPTION: suffix "N" = Negative Enable (default is Positive Enable without suffix "N")
Standard pin length is 5mm nominal. Consult factory for other options.

Pin Assignments

Single Output

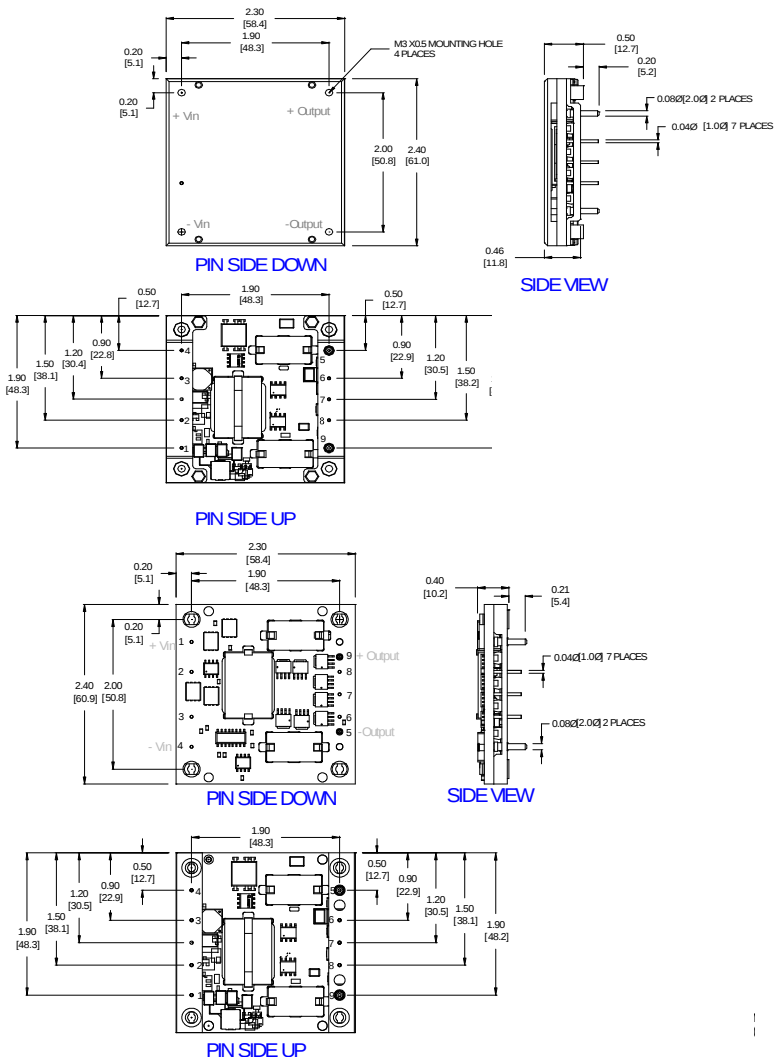
1. +Vin
2. Enable (On/Off)
3. Case (AEH version)
4. -Vin
5. - Output
6. - Sense
7. Trim
8. + Sense
9. + Output

Notes:

1. 20 MHz bandwidth. External 10 uF tant. capacitor + 0.1 uF cer. capacitor placed from +V out to -Vout.
2. Requires a 2.2 mf, 100V film capacitor connected between +V in and -V in to meet FCC class A and ETS300-386-1 requirements for conducted noise. Consult Factory for filtering information to meet FCC class B, VDE or EIC specifications.
3. Suffix "-6" for 3.7mm nominal pin length, "T" for tuned version for specific transient response requirement. Minimum output capacitance required. Refer to Technical reference Notes for details.
4. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
5. All specifications subject to change without notice. Mechanical drawings are for reference only
6. Technical Reference Notes should be consulted for detailed information when available
7. Warranty: 1yr

* Astec reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application. (REV05: FEBRUARY 2, 2004)

AEH - BASEPLATE



ALH - BASEPLATE

Astec Industry Standard

Mouser Electronics

Authorized Distributor

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[AEH60K48](#) [AEH60K48N](#) [AEH60K48N-L](#) [AEH60Y48](#) [AEH60Y48N](#) [AEH60Y48N-L](#) [ALH60F48](#) [ALH60F48-L](#)
[ALH60F48N](#) [ALH60F48N-L](#) [ALH60G48](#) [ALH60G48N](#) [ALH60G48N-L](#) [ALH60K48](#) [ALH60K48-L](#) [ALH60K48N](#)
[ALH60K48N-L](#) [ALH60Y48](#) [ALH60Y48N](#) [ALH60Y48N-L](#)