

AEH40 Series

132 Watts / 48 Watts

Total Power:
132 Watts (for the 3.3 Vo device)
48 Watts (for the 1.2 Vo device)
Input Voltage: 36 - 75 VDC
of Outputs: Single



Special Features

- Delivers up to 40A output current
- Basic Isolation
- Ultra High Efficiency
- Improved thermal performance: 40A at 70 °C at 1.5ms-1 (300LFM)
- High power density
- Low output noise
- Industry standard pinout
- 2:1 wide input voltage
- CNT function
- Remote sense
- Trim function: +10% / -20%
- Input under-voltage lockout
- Output over-current lockout
- Output over-voltage protection
- Over temperature protection
- RoHS Compliant

Safety

UL cUL
TUV

Electrical Specifications

Input

Input Range	36 to 75 VDC
Input Current (max.)	6.2 A (for the 3.3 Vo device) 2.0 A (for the 1.2 Vo device)
Input Reflected-ripple	20 mAp-p 5Hz to 20MHz: 12uH source impedance, TA=25 °C

Current Output

Output

Output voltage	3.25 to 3.35 Vdc (3.3 Vdc Nominal) 1.18 to 1.22 Vdc (1.2 Vdc Nominal)
Output Current	0 to 40 A
Efficiency	>87% (89% typ) : 3.3 Vo device >80% (81% typ) : 1.2 Vo device
Line output regulation	10 MV max. (5MV Nominal) : 3.3 Vo device 5 MV max. (3MV Nominal) : 1.2 Vo device
Load Output Regulation	20 mV max (10 mV Typ) : 3.3 Vo device 18 mV max (5 mV Typ) : 1.2 Vo device
Switching Frequency	280KHz for the 3.3 Vo 220KHz for the 1.2 Vo

Isolation

I/O isolation	1500 Vdc
Isolation Capacitance	1000 pF
Isolation Resistance	>10 Mohms

Environmental Specifications

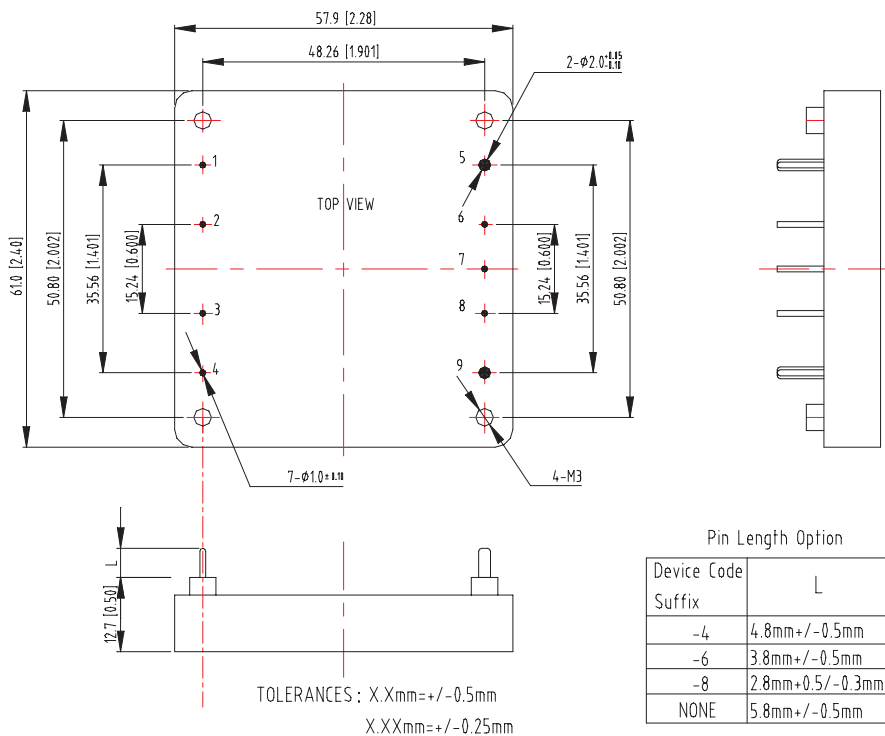
Operating ambient temperature range	-40 °C to 70 °C
Storage temperature	-55 °C to 125 °C
Temperature Regulation	0.02 %Vo/°C
Calculated MTBF	2 Million hours (typ.); Io=Io-max; Tc=25 °C



Ordering Information

Vin (V)	Vout (V)	Iout (A)	Effy	Model Number
36-75	3.3	40	89%	AEH40F48N
36-75	3.3	40	89%	AEH40F48
36-75	1.2	40	81%	AEH40K48N
36-75	1.2	40	81%	AEH40K48

Mechanical Drawing



Astec Power

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698
Technical Support: +1 888 41 ASTEC
or +1 407 241 2752

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Units 2111-2116, Level 21
Tower 1, Metroplaza
223, Hing Fong Road
Kwai Fong, New Territories
Hong Kong
Telephone: +852 2437 9662
Facsimile: +852 2402 4426

For global contact, visit:

www.astecpower.com
technicalsupport@astec.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Astec Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Printed in USA

Emerson Network Power.
The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Power**
- Inbound Power
- Integrated Cabinet Solutions
- Outside Plant
- Precision Cooling
- Site Monitoring and Services

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2006 Emerson Electric Co.