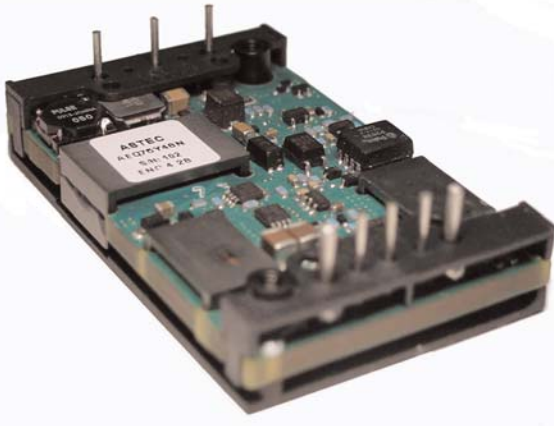


75 Amps AEQ75Y48

High Efficiency Quarter Brick



Total Power: 135W
Input Voltages: 48V
No. of Outputs: Single

Electrical Specs

Input

Input Range	36 to 75 VDC
Input Surge	100V /100ms
Efficiency	89% typical

Output

Output Current	75A max
Line/Load Regulation	<0.15%Vo typical
Noise/Ripple	25mV typical
Remote sense	Up to 10% of Vo
Transient Response	4% deviation typical 50% to 75% Load change 0.1A/μs Slew Rate 100μs recovery
Overvoltage Protection	120% Vo (autorecovery)
Current Limit	110% Io (autorecovery)
Switching Frequency	500kHz

Control

Voltage Adjust	90 to 110% Vo
Enable	TTL compatible (Positive or Negative Logic options)

Special Features

- High Efficiency
- Baseplate construction
- Industry standard package 1.45" x 2.30"
- Redundant output power pins
- Startup and stable operation at high capacitive load
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching
- Basic insulation
- EU Directive 2002/95/EC Compliant for RoHS

Environmental

Operating temperature range:
-40°C to +105°C Baseplate
Storage temperature: -40°C to +125°C
Overtemperature protection: 115°C PCB
temperature (Typical)
MTBF: > 1 million hours

Safety

UL, cUL 60950
TUV EN60950

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
Fwa Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



AEQ75Y48

Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
36V to 75V	1.8V	75A	89% Typ	AEQ75Y48(N) - (6)(3)(L)

OPTIONS

suffix "N" = Negative Logic Enable (without suffix "N" designates Positive Logic Enable)

suffix "6" = 3.7mm nominal pin length (5mm pin length default)

suffix "-3" = single pair of output pins (Pins 4 and 10 unstuffed)

without suffix "-3" = double pair of output pins (Pins 4, 5, 9, 10 are present)

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

Pin Assignments

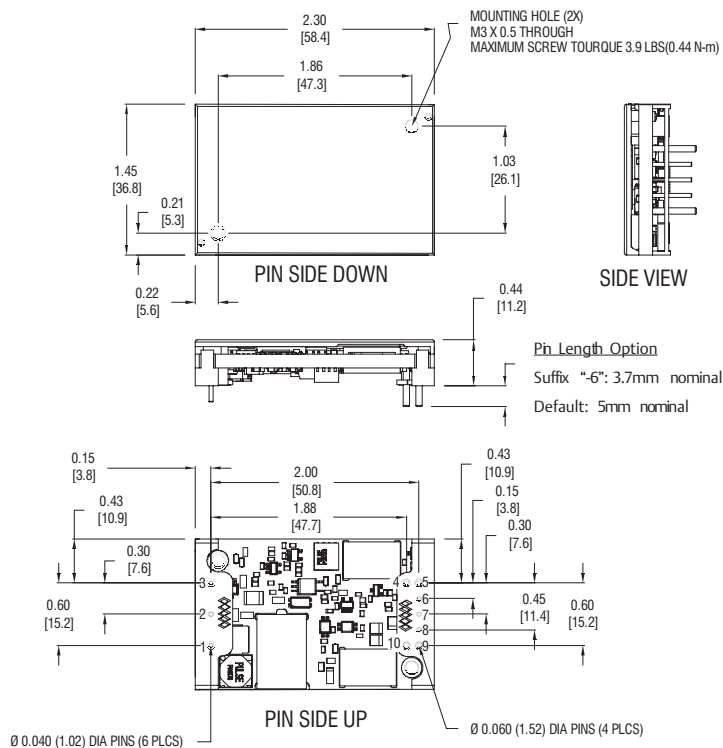
Single Output

1. +Vin
2. Enable
3. - Vin
4. Common (OPTIONAL)
5. Common
6. - Sense
7. Trim
8. + Sense
9. + Vout
10. + Vout (OPTIONAL)

Notes:

1. Nominal values apply with sense pins connected to +Vout and Ground Return with other control pins unconnected.
2. Consult the Technical Reference Notes for more detailed information.
3. Dimensions provided in the mechanical outline are nominal values.
4. Specifications subject to change without notice.
5. 2 Year warranty

* 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. (REV02: DECEMBER 20, 2006)



Astec Industry