

# 50-150 Watts

## AEH10-30

Total Power: 50-150 Watts  
 Input Voltages: 24V,48V  
 No. of Outputs: Single



### Electrical Specs

#### Input

Input range	36-75 VDC
Input Surge	100V / 100ms
Efficiency	89%@5V

#### Output

Load regulation	0.2% max
Line regulation	0.5% max
Ripple and noise	150mV max
Output voltage adjust range	±10% of nominal output
Transient Response	1% max deviation with 50% to 75% full load 100 μS (max) recovery

#### Control

Voltage Adjust	90 to 110%
Enable	TTL compatible (positive & negative enable options)

### Special Features

- Industry standard pin-out & performance 100°C baseplate temperature (no derating)
- Positive and negative enable function
- Low output ripple and noise
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching (330 kHz)

### Environmental

Operating case temperature range:

-40°C to +100°C

Storage temperature: -55°C to +125°C

MTBF: >2 million hours

### Safety

UL	UL1950
CSA	CSA22.2-950
TUV	EN60950

AMERICAS

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Carlsbad, CA 92008  
Telephone: 760-930-4600  
Facsimile: 760-930-0698

EUROPE

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ASIA

Units 2111-2116, Level 21  
Tower1, Metroplaza  
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Fwai Fong, New Territories  
Hong Kong  
Telephone: 852-2437-9662  
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AEH10-30

## Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
18-36V	2.5V @ 10A	86%	AEH10G24
18-36V	3.3V @ 10A	87%	AEH10F24
18-36V	5.0V @ 10A	88%	AEH10A24
18-36V	2.5V @ 20A	85%	AEH20G24
18-36V	3.3V @ 20A	87%	AEH20F24
18-36V	5.0V @ 20A	88%	AEH20A24
36-72V	2.5V @ 10A	86%	AEH10G48
36-72V	3.3V @ 10A	87%	AEH10F48
36-72V	5.0V @ 10A	89%	AEH10A48
36-72V	2.5V @ 15A	85%	AEH15G48
36-72V	3.3V @ 15A	87%	AEH15F48
36-72V	5.0V @ 15A	89%	AEH15A48
36-72V	2.5V @ 20A	87%	AEH20G48
36-72V	3.3V @ 20A	89%	AEH20F48
36-72V	5.0V @ 20A	90%	AEH20A48
36-72V	1.8V @ 30A	82%	AEH30Y48
36-72V	2.5V @ 30A	85%	AEH30G48
36-72V	3.3V @ 30A	87%	AEH30F48
36-72V	5.0V @ 30A	89%	AEH30A48

NOTES:

Enable Function

"N" = negative logic enable (without "N" = positive enable)

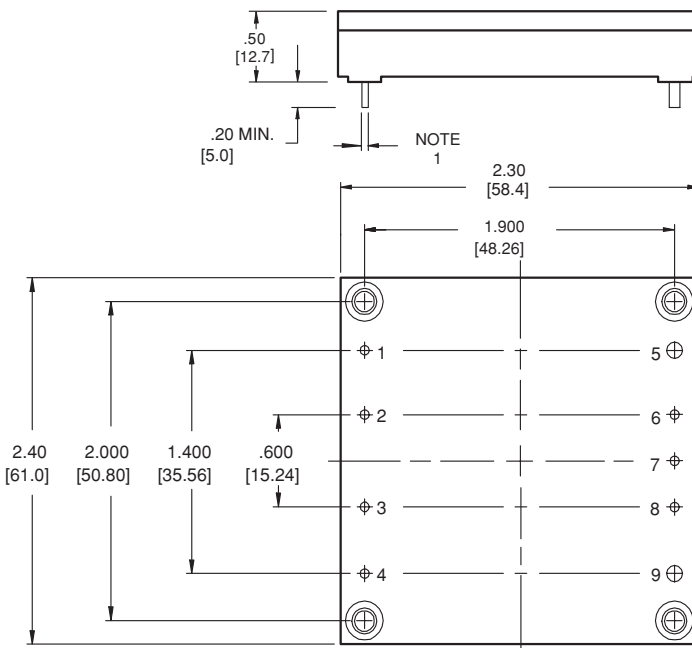
## Pin Assignments

### Single Output

1. -Vin
2. Case
3. Enable (on/off)
4. +Vin
5. -5V Rtn
6. -Sense
7. Trim
8. +Sense
9. +5V Out

### Notes:

1. 20 mHz bandwidth. An external 2.2 mf ceramic capacitor is recommended to be placed from +V out to -V out.
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. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
4. All specifications subject to change without notice. Mechanical drawings are for reference only.
5. Please refer to the Technical Reference Notes for more information.
6. Warranty: 1 yr



Mounting Inserts  
M3 X .5 (4 places)

BOTTOM VIEW