

50-150 Watts

AEH10-30

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

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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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EUROPE

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ASIA

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ASTEC

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)

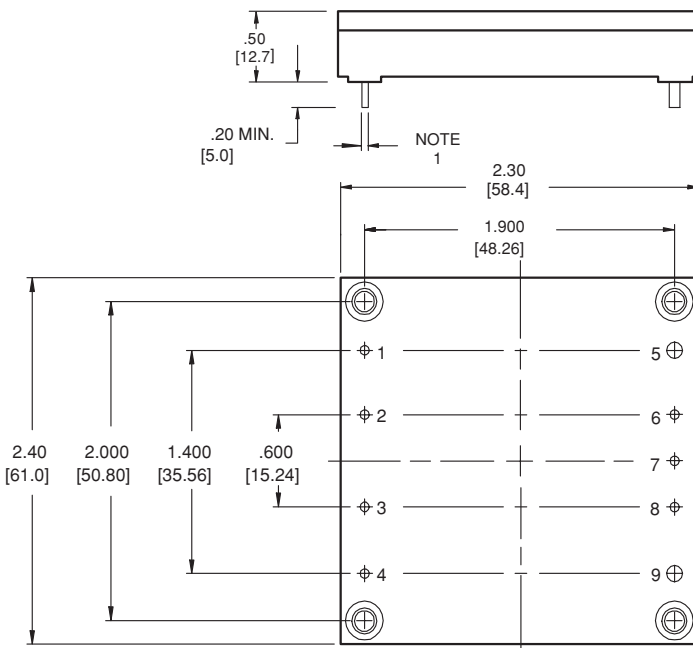
Pin Assignments

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