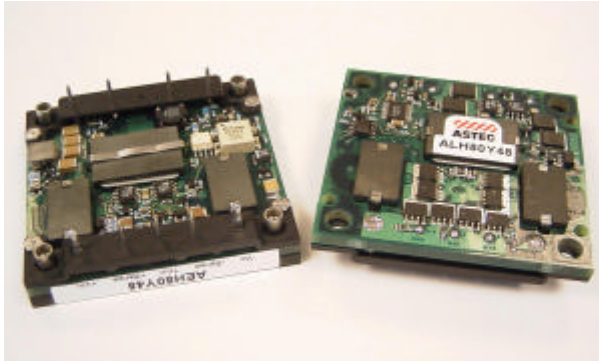


80Amps AEH80

ALH80 (Open Frame)

Ultra High Efficiency

PRELIMINARY



Total Power: 150 Watts (1.8V@80Amps)
Input Voltages: 48 V
No. of Outputs: Single

Electrical Specs

Input

Input range	36-75 VDC
Input Surge	100V / 100ms
Efficiency	89%@1.8V (Typical)

Control

Enable	TTL compatible (positive & negative enable options)
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Output

Regulation (Line, Load, Temp)	<2%
Ripple and noise	60mV p-p typical
Remote sense	Up to 10%Vout
Output voltage adjust range	+/-10% of nominal output
Transient Response	4% max deviation with 50% to 75% full load 300 μ S (max) recovery
Overvoltage Protection	130% nominal output

Special Features

- Ultra High efficiency, 1.8V@89% (Typical)
- -40°C to 100°C baseplate operating temp.
- -40°C to 85°C Ambient Air for Open Frame
- Open Frame (ALH80) and Baseplate (AEH80)
- Redundant Inline Output Pins
- Positive and Negative enable function
- Low output ripple and noise
- High capacitive load limit on start-up
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching (400 kHz)

Environmental

Operating temperature

-40°C to +100°C Baseplate (AEH80)

-40°C to +85°C Ambient Air (ALH80)

Storage temperature: -55°C to +105°C

Overtemperature protection: 115°C typical

MTBF: >1 million hours

Safety

UL, CUL 1950 Recognized

TUV EN60950 Licensed



Ordering Information

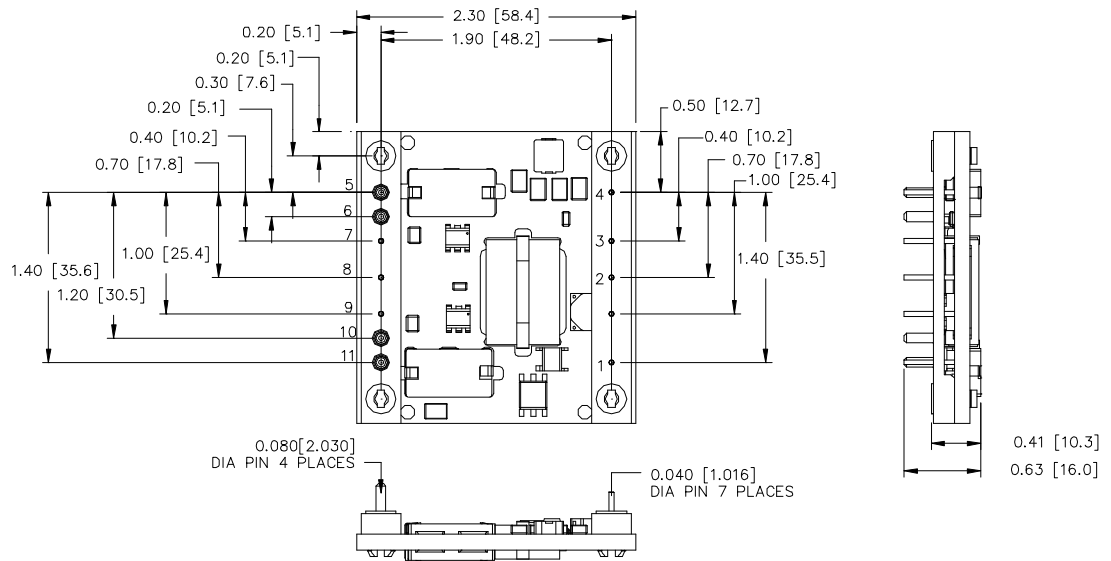
Input Voltage	Output Voltage	Efficiency	Model Number	Availability
48V	1.8V @ 80A	89% (Typ)	AEH80Y48	Samples Available March, 2002
48V	1.5V @ 80A	87% (Typ)	AEH80M48	Samples Available March, 2002
48V	1.2V @ 80A	85% (Typ)	AEH80K48	Samples Available March, 2002
48V	1.8V @ 80A	89% (Typ)	ALH80Y48	Samples Available March, 2002
48V	1.5V @ 80A	87% (Typ)	ALH80M48	Samples Available March, 2002
48V	1.2V @ 80A	85% (Typ)	ALH80K48	Samples Available March, 2002

- Note: 1. For Negative Enable add suffix "N"
 2. To Remove Pins 6 and 10 for standard 1/2 brick add suffix "-2"

Pin Assignments

Single Output

- Vin
- Case
- Enable (on/off)
- +Vin
- +Output
- +Output
- +Sense
- Trim
- Sense
- Output
- Output



Notes:

- 20 mHz bandwidth. External 10 uF tant. capacitor + 0.1 uF cer. capacitor placed from +V out to -V out.
- 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.
- All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are for reference only
- Technical Reference Notes should be consulted for detailed information when available
- Warranty: 1yr

Note: ALH = 0.41" height
 AEH = .5" Standard height
 with Heatsink assembly