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



RoHS 2002/95/EC

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 Current	20 mAp-p 5Hz to 20MHz: 12uH source impedance, TA=25 °C

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

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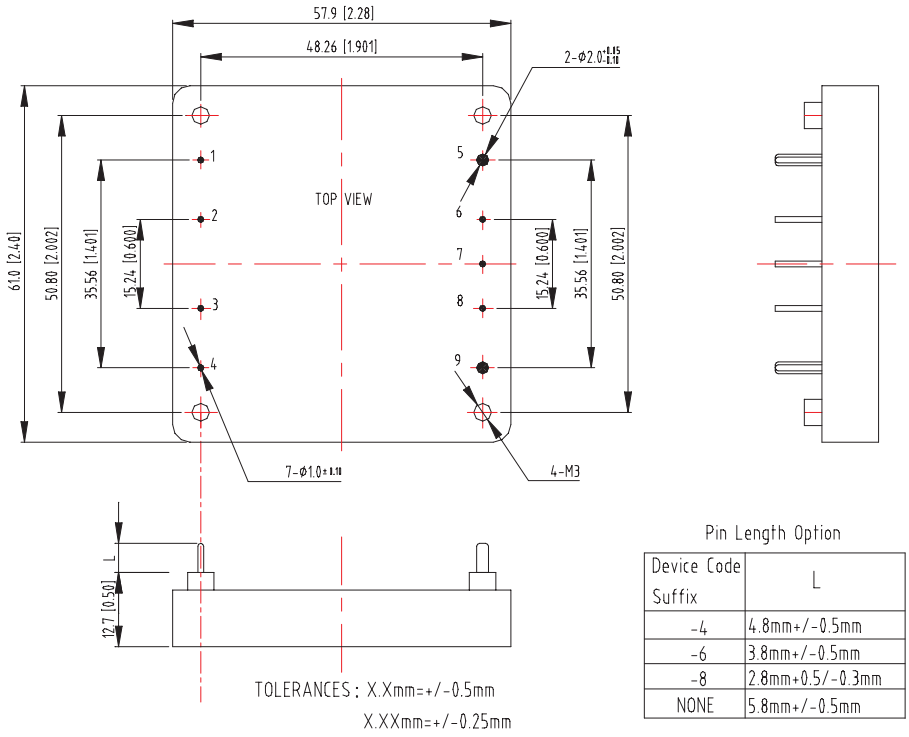
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Ordering Information

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



Pin Length Option

Device Code Suffix	L
-4	4.8mm+/-0.5mm
-6	3.8mm+/-0.5mm
-8	2.8mm+0.5/-0.3mm
NONE	5.8mm+/-0.5mm

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