

## ELECTRICAL SPECIFICATIONS

Input	
Input range	36 - 75 Vdc
Efficiency <sup>2</sup>	94.5%
Output	
Voltage	28 V +/-1%
Line regulation	+/- 0.05%
Load regulation	+/- 0.1%
Noise/ripple	200 mV
Overvoltage protection	Latch off
Overtemperature protection	Auto-restart
Switching frequency	320 KHz
Temperature co-efficient	±0.02/°C
Isolation	
I/O isolation	1500 VDC min.

## ENVIRONMENTAL SPECIFICATIONS

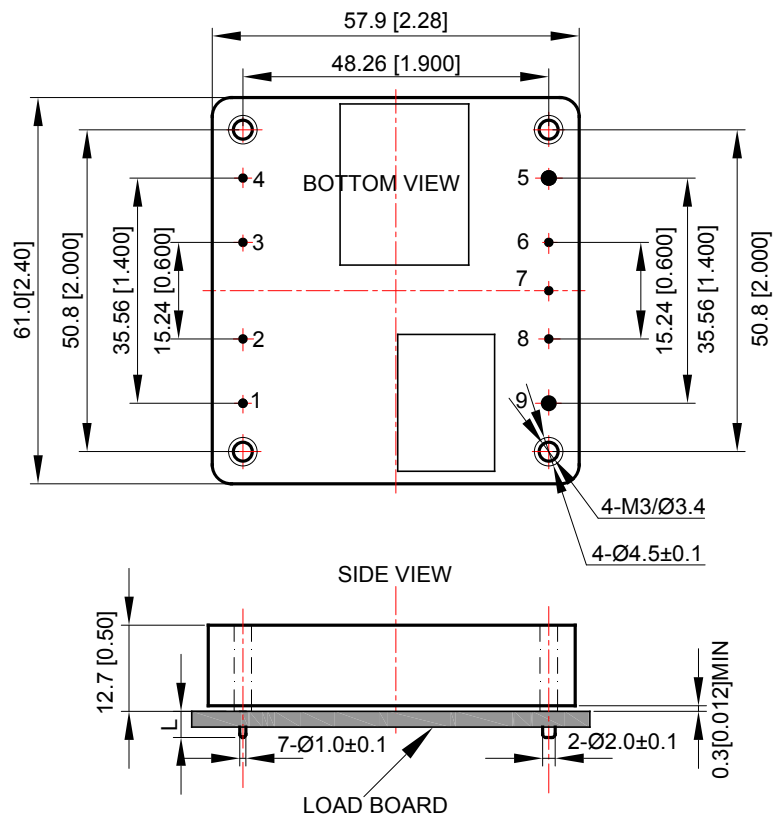
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	6/6

ORDERING INFORMATION

Model number	Input voltage	Output voltage	Power
AVE450B-48S28-6L/M	36 - 75 Vin	28 V @ 16 A	450 W
AVE450B-48S28P-6L	36 - 75 Vin	28 V @ 16 A	450 W
AVE450B-48S28-6L	36 - 75 Vin	28 V @ 16 A	450 W

- Standard version is negative enable
- "-6" = 3.8 mm pin length
- "-L" = RoHS 6/6 compliance
- "-M" = Thread hole fixture
- "P" = Positive remote control

MECHANICAL DRAWINGS



UNIT: mm[inch]      BOTTOM VIEW: pin on upside  
TOLERANCE: X.Xmm±0.5mm[X.XX in.±0.02in.]  
              X.XXmm±0.25mm[X.XXX in.±0.01in.]

## PIN LENGTH OPTION

Device code suffix	L
-4	4.8 mm $\pm$ 0.5 mm
-6	3.8 mm $\pm$ 0.5 mm
-8	2.8 mm $\pm$ 0.5 mm
None	5.8 mm $\pm$ 0.5 mm

## PIN DESIGNATIONS

Pin No.	Name	Function
1	$V_{in+}$	Positive input voltage
2	CNT	Remote ON/OFF control
3	Case	Case
4	$V_{in-}$	Negative input voltage
5	$V_{o-}$	Negative output voltage
6	S-	Negative remote sense
7	Trim	Output voltage trim
8	S+	Positive remote sense
9	$V_{o+}$	Positive output voltage

## Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.



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## ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

## PRECISION | POWER | PERFORMANCE

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