

## AVE450B Series

450 Watts

### Data Sheet

**Total Power:** 450 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Single

### SPECIAL FEATURES

- 2:1 Wide input range
- Extra wide trim range 14 V - 33 V for 28 Vo
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- Super high efficiency
- High capacitive load capability
- Basic insulation system
- Aluminium substrate design

### SAFETY

- UL, cUL: UL60950
- TUV/CE: IEC/EN60950



### 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
Overshoot 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

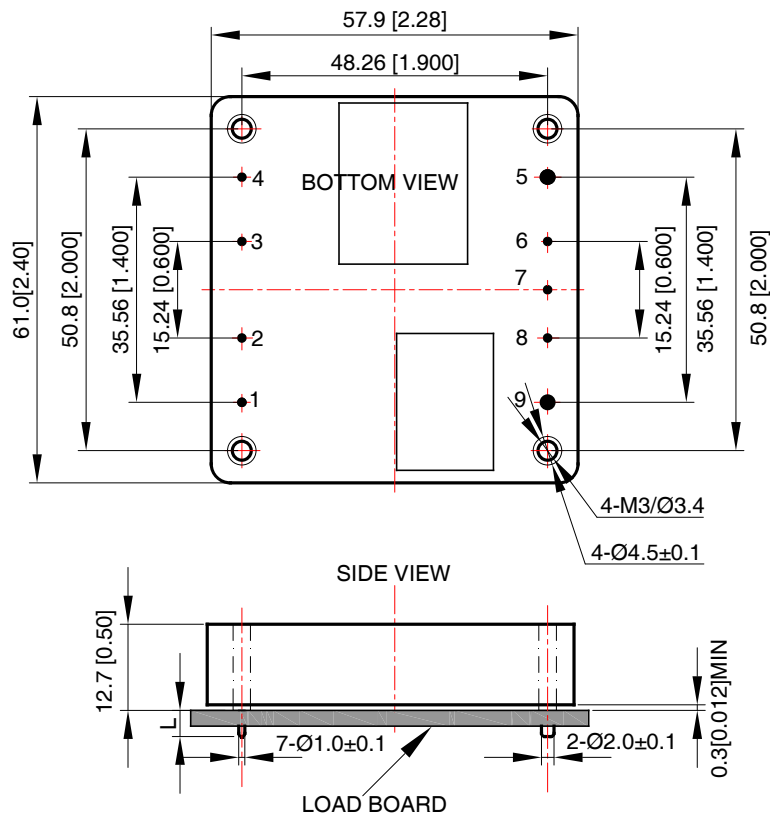
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	6/6

### 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 ± 0.5 mm
-6	3.8 mm ± 0.5 mm
-8	2.8 mm ± 0.5 mm
None	5.8 mm ± 0.5 mm

### Pin Designations

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