

## AVE350B Series

350 Watts

### Data Sheet

**Total Power:** 350 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Single

### SPECIAL FEATURES

- 2:1 Wide input range
- Extra wide trim range  
16.8 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> : | 93.5%       |

#### Output

|                              |              |
|------------------------------|--------------|
| Voltage tolerance:           | +/-1%        |
| Line regulation:             | +/-1%        |
| Load regulation:             | +/-1%        |
| Noise/ripple:                | 200mV        |
| Over voltage protection:     | Latch off    |
| Over temperature protection: | Auto-restart |
| Switching frequency:         | 285 KHz      |
| Temperature coefficient:     | ±0.02/°C     |

#### Isolation

|                |               |
|----------------|---------------|
| I/O isolation: | 1500 VDC min. |
|----------------|---------------|

### Environmental Specifications

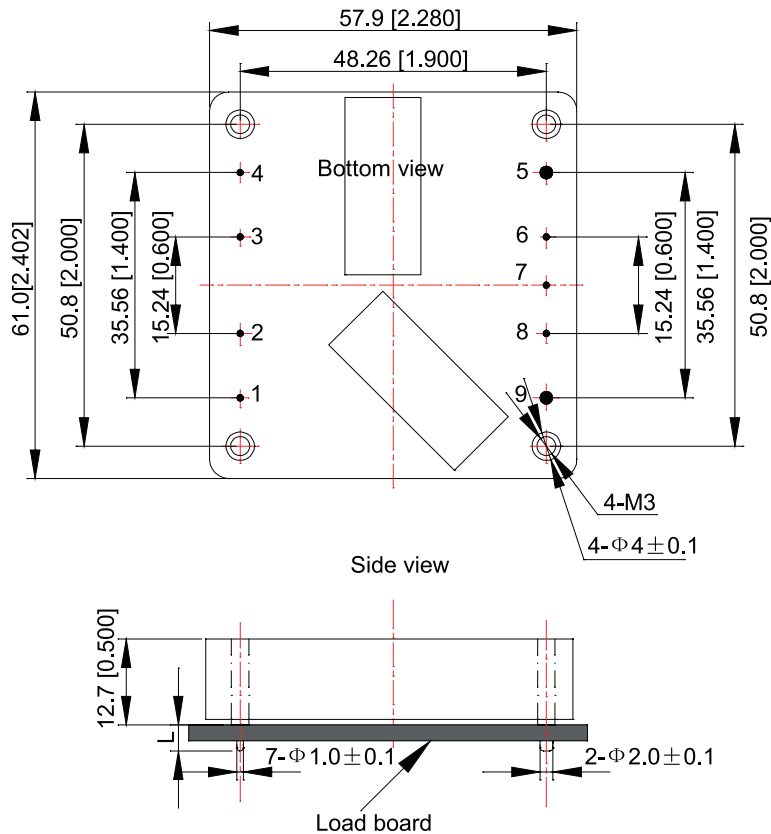
|                                      |                            |
|--------------------------------------|----------------------------|
| Operating ambient temperature range: | -40 °C to +85 °C           |
| Storage temperature:                 | -55 °C to +125 °C          |
| Humidity:                            | 5% to 95% (non-condensing) |
| MTBF:                                | 2 Million hours            |
| RoHS Compliant                       |                            |

### Ordering Information

| Model number     | Input voltage | Output voltage | Power |
|------------------|---------------|----------------|-------|
| AVE350B-48S28-6  | 36 - 75 Vin   | 28 V @ 12.5 A  | 350 W |
| AVE350B-48S28P-6 | 36 - 75 Vin   | 28 V @ 12.5 A  | 350 W |

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-P" = Positive enable

### Mechanical Drawings



Unit: mm[inch]                      Bottom view: pin on upside

Tolerance: X.Xmm ± 0.5mm[X.X in. ± 0.02in.]

X.XXmm ± 0.25mm[X.XX in. ± 0.01in.]

Base plate

### Pin Length Option

| Device code suffix | L             |
|--------------------|---------------|
| -4                 | 4.8mm ± 0.5mm |
| -6                 | 3.8mm ± 0.5mm |
| -8                 | 2.8mm ± 0.5mm |
| None               | 5.8mm ± 0.5mm |

### Pin Designations

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

**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.

### WORLDWIDE OFFICES

**Americas**

2900 South Diablo Way  
Suite B100  
Tempe, AZ 85282, USA  
+1 888 412 7832

**Europe (UK)**

Ground Floor Offices, Barberry House  
4 Harbour Buildings, Waterfront West  
Brierley Hill, West Midlands  
DY5 1LN, UK  
+44 (0) 1384 842 211

**Asia (HK)**

14/F, Lu Plaza  
2 Wing Yip Street  
Kwun Tong, Kowloon  
Hong Kong  
+852 2176 3333

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