

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 V_o
- 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 ² : | 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

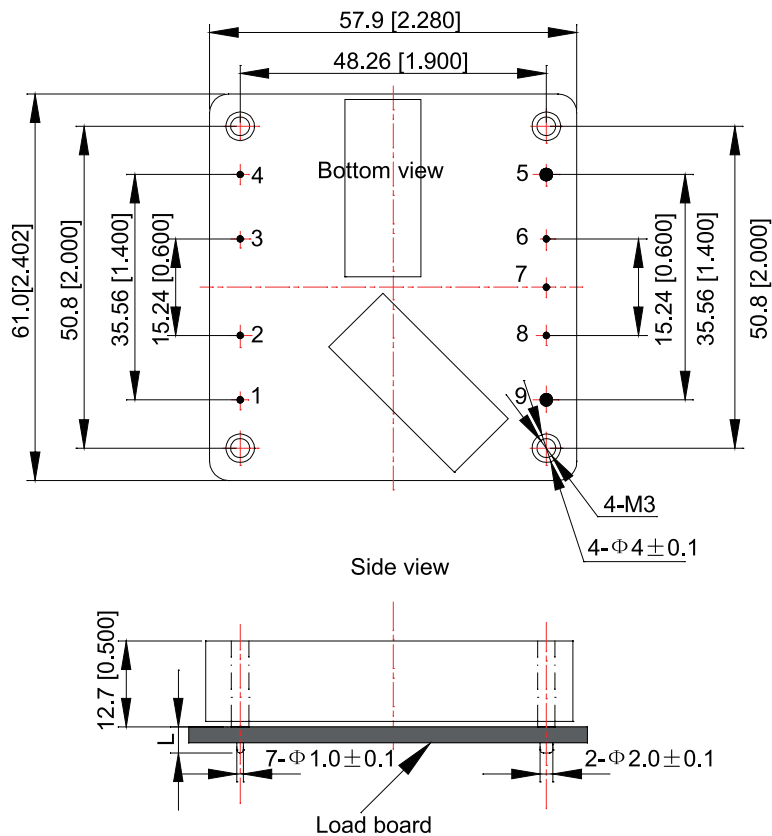
| | |
|--------------------------------------|----------------------------|
| Operating ambient temperature range: | -40 °C to +85 °C |
| Storage temperature: | -55 °C to +125 °C |
| Humidity: | 5% to 95% (non-condensing) |
| MTBF: | 2 Million hours |
| RoHS Compliant | |

Ordering Information

| Model number | Input voltage | Output voltage | Power |
|------------------|-------------------------|----------------|-------|
| AVE350B-48S28-6 | 36 - 75 V _{in} | 28 V @ 12.5 A | 350 W |
| AVE350B-48S28P-6 | 36 - 75 V _{in} | 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 _{in+} | Positive input terminal |
| 2 | Remote ON/OFF | ON/OFF control terminal |
| 3 | Case | Pin connected to baseplate |
| 4 | V _{in-} | Negative input terminal |
| 5 | V _{o-} | Negative output terminal |
| 6 | Sense- | Negative remote sense |
| 7 | Trim | Output voltage trim |
| 8 | Sense+ | Positive remote sense |
| 9 | V _{o+} | 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.

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