

## AVE600 Series

600 Watts

### Data Sheet

**Total Power:** 600 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Single

### SPECIAL FEATURES

- 2:1 Wide input range
- 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> :	95.6%
Output	
Voltage tolerance:	+/-1%
Line regulation:	±0.33%
Load regulation:	±0.2%
Noise/ripple:	200 mV
Over voltage protection:	Hiccup: Auto-restart
Over temperature protection:	Auto-restart
Switching frequency:	140 kHz
Temperature coefficient:	±0.02/°C
Isolation	
I/O isolation:	1500 VDC min.

### Environmental Specifications

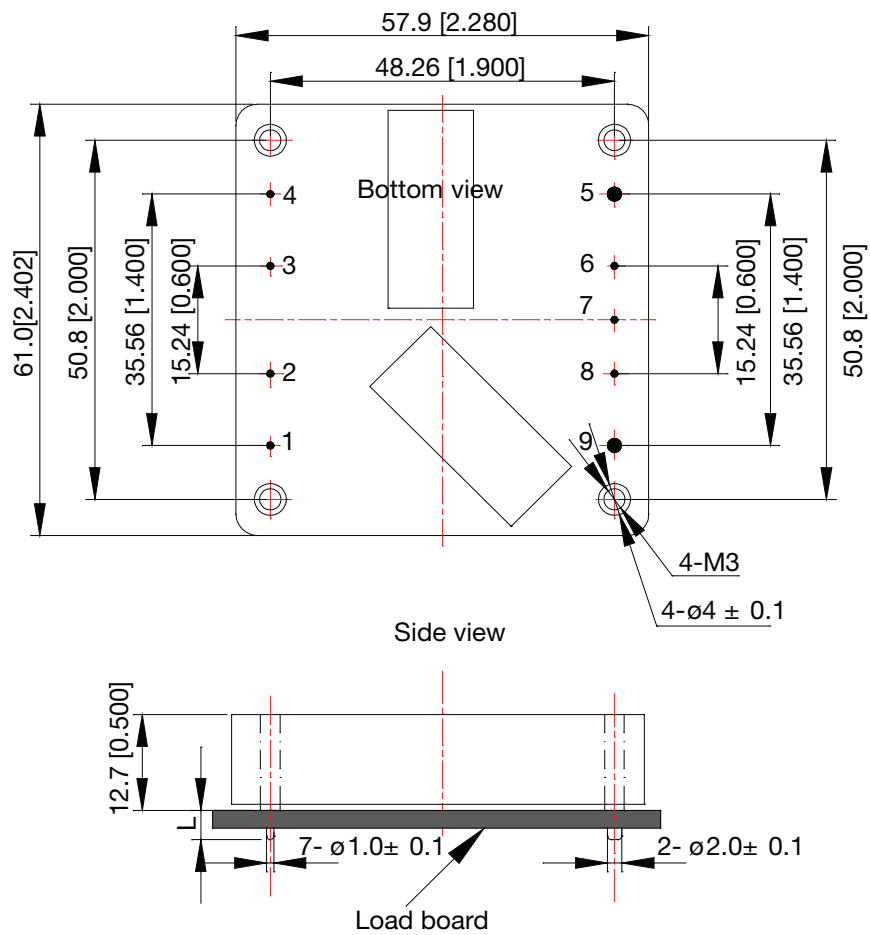
Operating ambient temperature range:	-40 °C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	1.5 Million hours
RoHS Compliant	

### Ordering Information

Model number	Input voltage	Output voltage	Power
AVE600-48S12B-4L	36 - 75 Vin	12 V @ 50 A	600 W

- Standard version is negative enable
- "-L" = Rohs6 compliance
- "-4" = 4.8mm pin length
- "-B" = Baseplate

### 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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