

## AVO100 Series

100 Watts

### Data Sheet

**Total Power:** 100 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
- High efficiency
- High capacitive load capability
- Basic insulation system
- Pre-bias start-up capability
- Open-frame structure
- Output overcurrent protection

### SAFETY

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

### Electrical Specifications

Input	
Input range	36 - 75 VDC
Efficiency <sup>2</sup>	92.8% @ 5 V
Output	
Voltage tolerance	+/-1.5%
Line regulation	3.3 V: 0.3%; Others: 0.1%
Load regulation	3.3 V: 0.6%; 5 V: 0.2%; Others: 0.1%
Noise/ripple	3.3 Vo: 3.3V: 60 mV; 5V: 90 mV; 5.0 Vo: Others: 75 mV
Overvoltage protection Overtemperature protection	Auto-restart
Switching frequency	3.3 V, 5 V: 310 KHz; Others: 210 KHz
Temperature co-efficient	±0.02/°C
Isolation	
I/O isolation	5 V: 2250 VDC; Others: 1500V DC

### Environmental Specifications

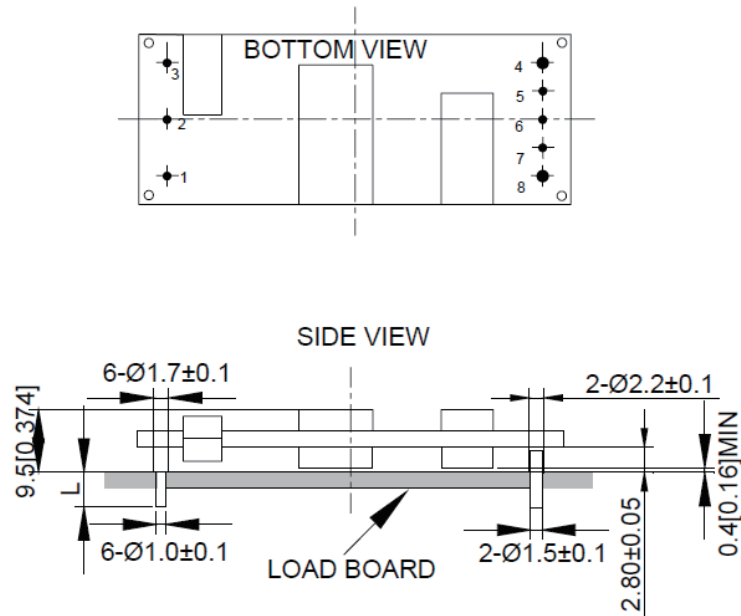
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	2.5 Million hours
RoHS Compliant	

### Ordering Information

Model number	Input voltage	Output voltage	Power
AVO100-48S1V2-6L	36 - 75 Vin	1.2 V @ 50 A	60 W
AVO100-48S1V2B-6L	36 - 75 Vin	1.2 V @ 50 A	60 W
AVO100B-48S1V5-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5B-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5P-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5PB-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100-48S1V8-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8B-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8P-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8PB-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S2V5-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5B-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5P-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5PB-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100B-48S3V3-6L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100B-48S3V3SL	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100C-48S3V3B-4L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100C-48S3V3PB-4L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100-48S05-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05B-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05P-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05PB-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05SL	36 - 75 Vin	5 V @ 20 A	100 W

- Standard version is negative enable
- "-6" = 3.8 mm pin length
- "-4" = 4.8 mm pin length
- "-P" = Positive enable
- "-S" = Surface mount, tray package
- "-L" = RoHS 6 compliance
- "-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.]

Pin Assignments

Pin #	Function
1	+V in
2	Enable
3	-V in
4	-V out
5	-Sense
6	Trim
7	+Sense
8	+V out

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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