

AVO100 Series

100 Watts

Data Sheet

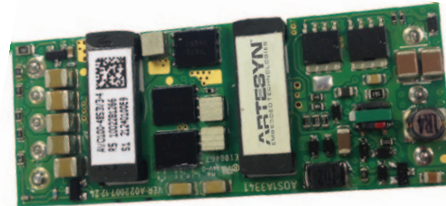
Total Power: 100 Watts
Input Voltage: 36 - 75 V
of Outputs: Single

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 over current protection

SAFETY

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



Electrical Specifications

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

Environmental Specifications

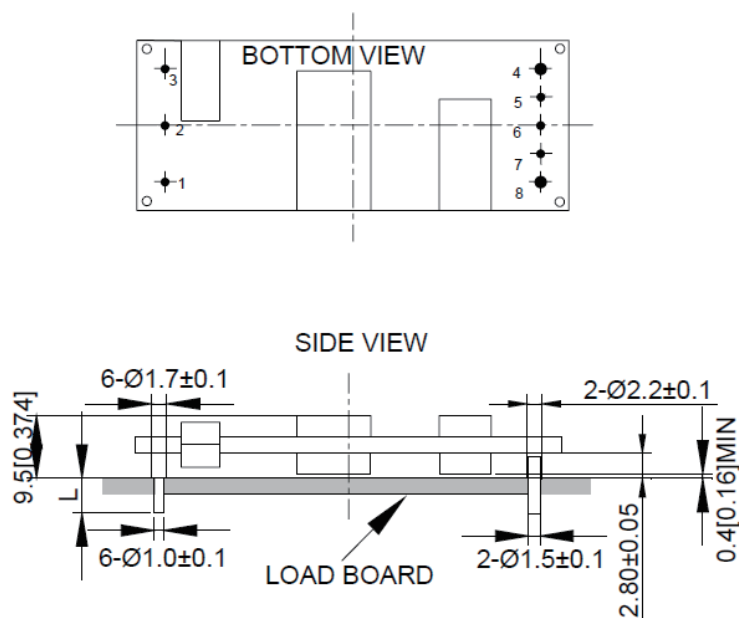
Operating ambient temperature range:	-40°C to +85°C
Storage temperature:	-55°C to +125°C
Humidity:	5% to 95% (non-condensing)
MTBF:	2.5 Million hours
RoHS Compliant	

Ordering Information

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

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-4" = 4.8mm pin length
- "-P" = Positive enable
- "-S" = Surface mount, tray package
- "-L" = Rohs6 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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