

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

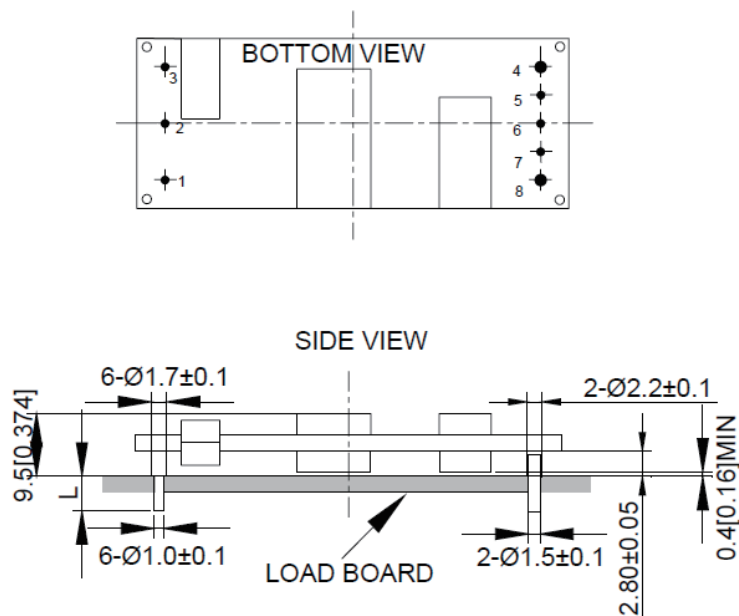
Operating ambient temperature range:	-40°C to +85°C
Storage temperature:	-55°C to +125°C
Humidity:	5% to 95% (non-condensing)
MTBF:	2.5 Million hours
RoHS Compliant	

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.

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
+44 (0) 1384 842 211

Asia (HK)

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

ARTESYN
EMBEDDED TECHNOLOGIES

www.artesyn.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Artesyn Embedded Technologies assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. © 2014 Artesyn Embedded Technologies, Inc.

For more information: www.artesyn.com/power
For support: productsupport.ep@artesyn.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Artesyn Embedded Technologies:](#)

[AVO100-48S05-6L](#)