

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 ²	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	Auto-restart
Overtemperature protection	
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

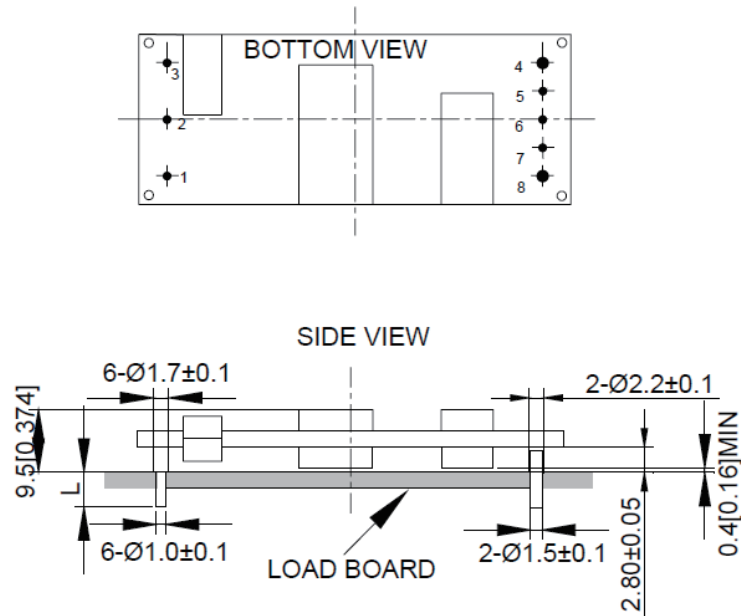
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	2.5 Million hours
RoHS Compliant	

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.

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



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