

AVD85 Series

85 Watts

Data Sheet

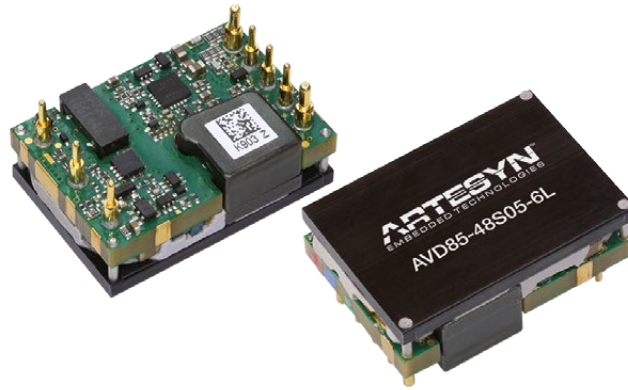
Total Power: 85 Watts
Input Voltage: 36 - 75V
of Outputs: Single

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
- Pre-bias start-up capability
- Basic insulation system
- Through hole or SMT termination
- Openframe structure with baseplate option
- Output over current protection
- Two year warranty

SAFETY

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



Electrical Specifications

Input	
Input range	36 - 75 Vdc
Efficiency	91.5% @ 3.3 V; 93.5% @ 5 V; 92.5% @ 12 V
Output	
Output voltage	3.3 V, 25 A, 91.5% efficiency 5 V, 17 A, 91% efficiency 12 V, 7 A, 92% efficiency
Output voltage adjust	80% -110% of Vout Nom
Voltage tolerance	+/-1.5%
Line regulation	0.2%
Load regulation	Single output: 0.5%
Noise/ripple	3.3 Vo: 120 mV
Over voltage protection Over temperature protection	Auto-restart
Switching frequency	250 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	2 Million hours
RoHS Compliant	

Pin Assignments

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

Ordering Information

Model number	Input voltage	Output voltage	Power
AVD85-48S3V3-6L	36 - 75 Vin	3.3 V @ 25 A	82.5 W
AVD85-48S3V3TL	36 - 75 Vin	3.3 V @ 25 A	82.5 W
AVD85-48S3V3B-6L	36 - 75 Vin	3.3 V @ 25 A	82.5 W
AVD85-48S05-6L	36 - 75 Vin	5 V @ 17 A	85 W
AVD85-48S05B-6L	36 - 75 Vin	5 V @ 17 A	85 W
AVD85-48S05TL	36 - 75 Vin	5 V @ 17 A	85 W
AVD85-48S12TL	36 - 75 Vin	12 V @ 7 A	84 W
AVD85-48S12-6L	36 - 75 Vin	12 V @ 7 A	84 W
AVD85-48S12B-6L	36 - 75 Vin	12 V @ 7 A	84 W

Notes:

Standard version is negative enable

-6 = 3.8 mm pin length

B = Baseplate version

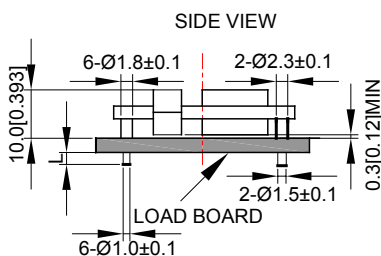
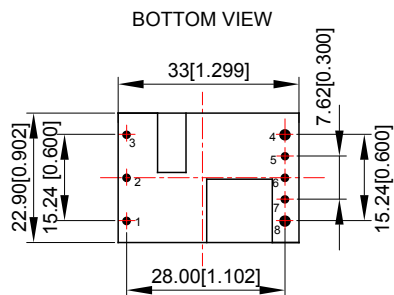
T = Surface mount, reel tape package

L = RoHS 6 compliance

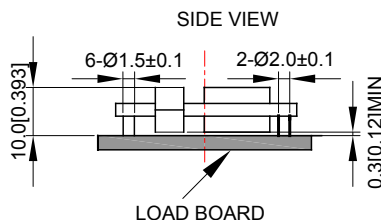
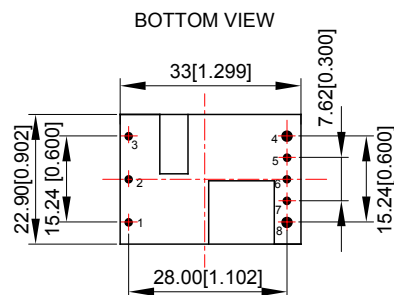
P = Positive enable

Mechanical Drawings

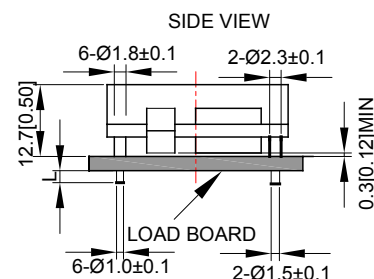
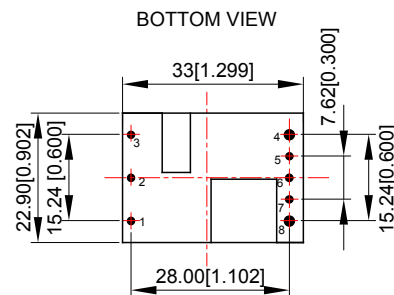
AVD85



TL (Surface Mount)



AVD85/120-B



UNIT: mm[inch]

BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.XX in.±0.02in.]

X.XXmm±0.25mm[X.XXX in.±0.01in.]

Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. 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

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. © 2016 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

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

AVD85 Series-DS 14Oct2016