

AVD85 Series

85 Watts

Data Sheet

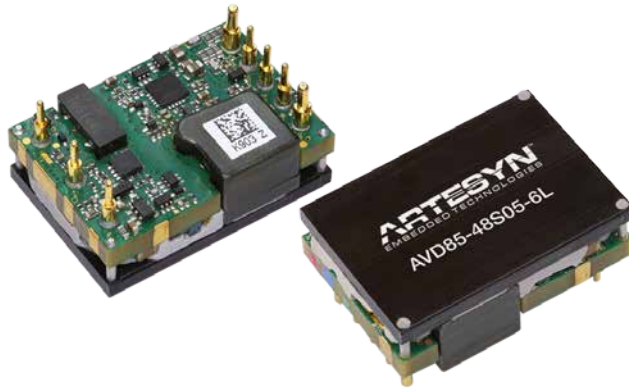
Total Power: 85 Watts
Input Voltage: 36 - 75V
of Outputs: Single

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

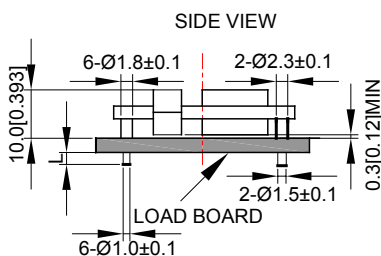
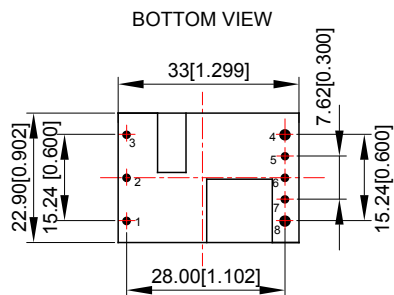
T = Surface mount, reel tape package

L = RoHS 10 compliance

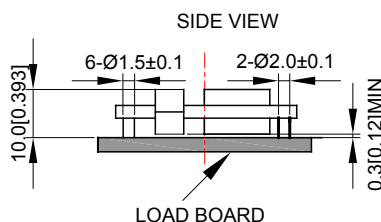
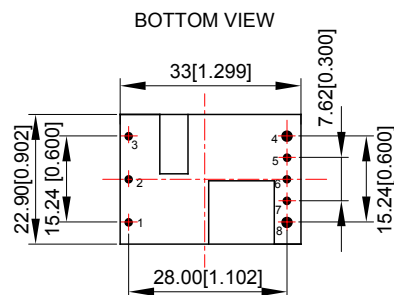
P = Positive enable

Mechanical Drawings

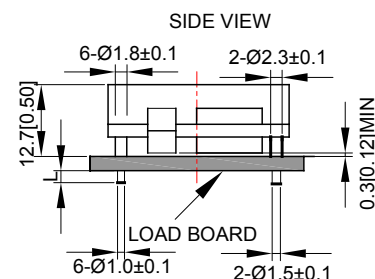
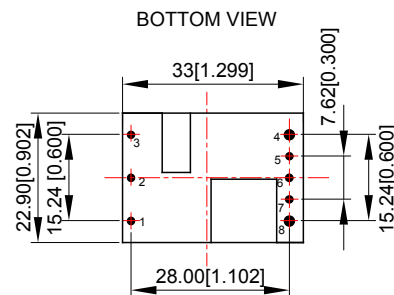
AVD85



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 South Diablo Way
Suite B100
Tempe, AZ 85282, USA
+1 888 412 7832

Europe (UK)

Ground Floor Offices, Barbary House
4 Harbour Buildings, Waterfront West
Brierley Hill, West Midlands
DY5 1LN, UK
+44 (0) 1384 842 211

Asia (HK)

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

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

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