

## AVD85 Series

85 Watts

### Data Sheet

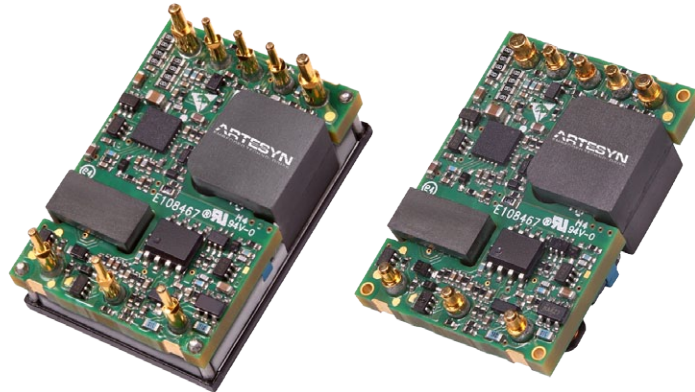
**Total Power:** 85 Watts  
**Input Voltage:** 36 - 75V  
**# of Outputs:** Single

### 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

### SAFETY

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



### Electrical Specifications

Input	
Input range:	36 - 75 VDC
Efficiency:	91.5% @ 3.3V; 92.5% @ 12V
Output	
Voltage tolerance:	+/-1.5%
Line regulation:	0.2%
Load regulation:	Single output: 0.5%
Noise/ripple:	3.3 Vo: 120mV
Over voltage protection:	Auto-restart
Over temperature protection:	
Switching frequency:	250KHz
Temperature coefficient:	±0.02 /°C
Isolation	
I/O isolation:	1500 VDC min.

### Specifications

Operating ambient temperature range:	-40°C to +85
Storage temperature:	-55°C to +125
Humidity:	5% to 95% (non-condensing)
MTBF:	2 Million hours
RoHS Compliant	

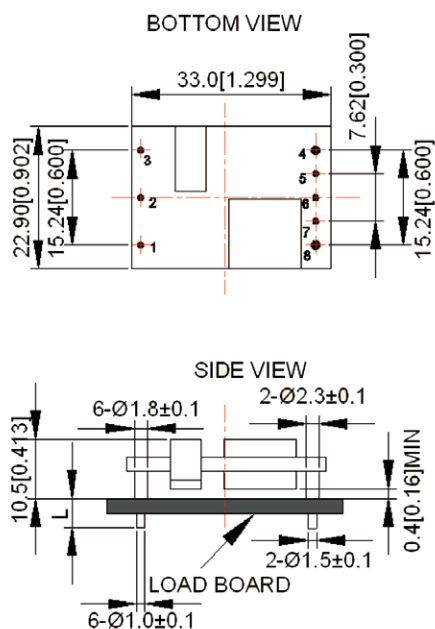
## Ordering Information

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

### Notes:

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-T" = Surface mount, reel tape package
- "-S" = Surface mount, tray package
- "-L" = Rohs6 compliance
- "-P" = Positive enable

## 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.]

### Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 yr
3. Label and logo appearance may vary from what is shown on mechanical drawings.

## Pin Assignments

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

## 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](http://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](http://www.artesyn.com/power)  
For support: [productsupport.ep@artesyn.com](mailto:productsupport.ep@artesyn.com)

AVD85 Series-DS Rev. 11.13.14