

AVD85 Series

85 Watts

Data Sheet

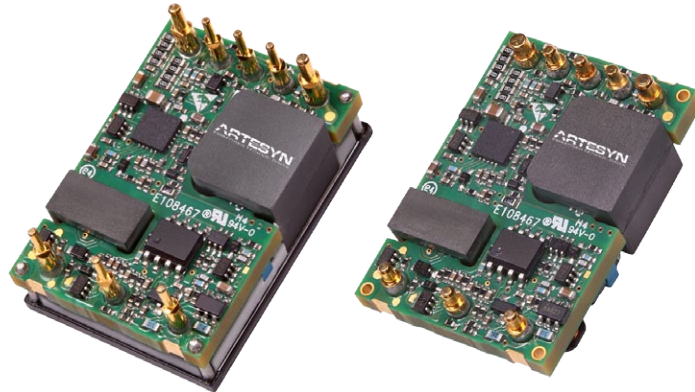
Total Power: 85 Watts
Input Voltage: 36 - 75V
of Outputs: Single

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	

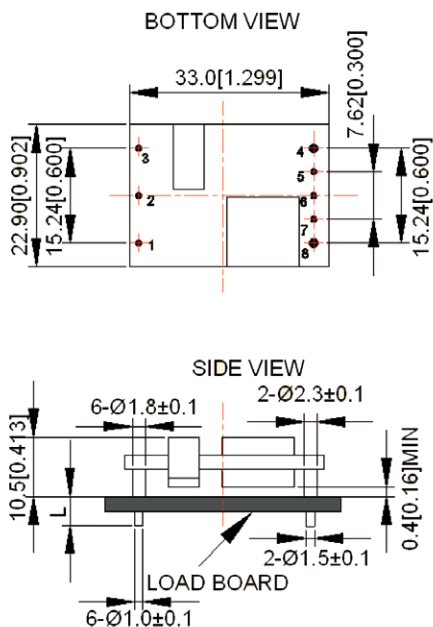
Ordering Information

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

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