

AVD100 Series

100 - 120 Watts

Data Sheet

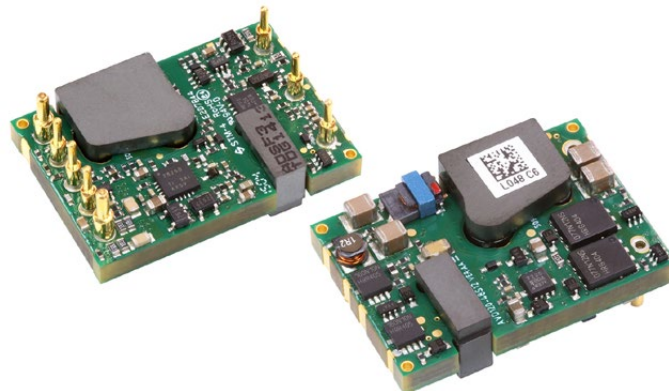
Total Power: 100 - 120 Watts
Input Voltage: 36 - 75V
of Outputs: Single

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	5V: 92.5% @ full load; 93.5% @ half load
Output	
Voltage tolerance	+/-1.5%
Line regulation	0.2%
Load regulation	Single output: 0.5%
Noise/ripple	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.

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	

Ordering Information

Model number	Input voltage	Output voltage	Power
AVD100-48S05-6L	36 - 75 V _{in}	5 V @ 20 A	100 W
AVD100-48S05B-6L	36 - 75 V _{in}	5 V @ 20 A	100 W
AVD100-48S05TL	36 - 75 V _{in}	5 V @ 20 A	100 W
AVD120-48S12-6L	36 - 75 V _{in}	12 V @ 10 A	120 W
AVD120-48S12B-6L	36 - 75 V _{in}	12 V @ 10 A	120 W
AVD120-48S12TL	36 - 75 V _{in}	12 V @ 10 A	120 W

Notes:

Standard version is negative enable

"-6" = 3.8 mm pin length

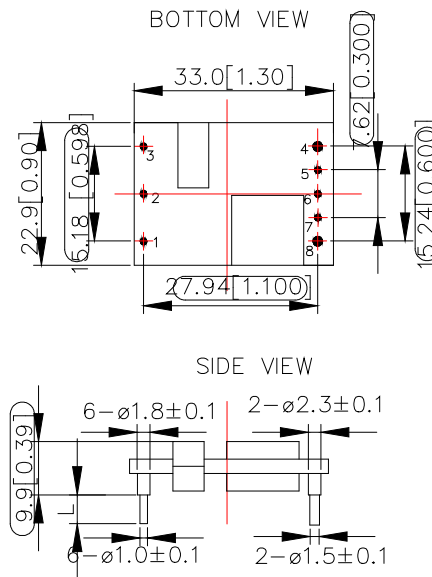
"B" = Baseplate version

"T" = Surface mount, reel tape package

"L" = RoHS 6 compliance

"P" = Positive enable

Mechanical Drawings



UNIT: mm[inch]=3.80±0.25mm

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. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

Pin Assignments

Pin #	Function
1	+V in
2	Remote On/Off
3	-V in
4	-V out
5	- Sense
6	Trim
7	+Sense
8	+V out

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