

AVD50 Series

50 Watts

Data Sheet

Total Power: 50 Watts
Input Voltage: 36 - 75 V
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
- Two year warranty

SAFETY

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



Electrical Specifications

Input	
Input range	36 - 75 Vdc
Efficiency	90.5%
Output	
Maximum power	±2.0%
Line regulation	0.5%
Load regulation	Single output: 0.5%
Noise/ripple	5.0 Vo: 50 mV
Overvoltage protection Overtemperature protection	Auto-restart
Switching frequency	250 KHz
Temperature co-efficient	±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	6/6

The technical drawing shows a cross-section of the test specimen. It consists of a central cylindrical part with two smaller cylindrical sections at each end. The central section has a diameter of $6\text{-}\varnothing 1.5 \pm 0.1$. The end sections have a diameter of $2\text{-}\varnothing 2.0 \pm 0.1$. The total height of the specimen is $9.5 [0.374]$. The thickness of the base plate, labeled "LOAD BOARD", is $0.3 [0.12] \text{ MIN}$.

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.

Ordering Information

Model number	Input voltage	Output voltage	Power
AVD50-48S05-6L	36 - 75 Vin	5 V @ 10 A	50 W
AVD50-48S05P-6L	36 - 75 Vin	5 V @ 10 A	50 W
AVD50-48S05SL	36 - 75 Vin	5 V @ 10 A	50 W

Notes:

Standard version is negative enable

-6 = 3.8 mm pin length

-T = Surface mount, reel tape package

-S = Surface mount, tray package

-L = RoHS 6/6 compliance

-P = Positive enable

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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