

AVE450/500 Series

50 Volts; 450/500 Watts

Data Sheet

Total Power: 450/500 Watts
Input Voltage: 36 - 75 V
of Outputs: Single

SPECIAL FEATURES

- 2:1 Wide input range
- Extra wide trim range 25 - 57 V for 50 Vo
- Optimised for high power density, small space applications
- Low ripple and noise
- Fixed switching frequency
- Super high efficiency
- High capacitive load capability
- Basic insulation system
- Aluminium substrate design

SAFETY

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



Electrical Specifications

Input	
Input range	36 - 75 Vdc
Efficiency	95%
Output	
Voltage	50 V \pm 1%
Current	9 A (AVE450) 10 A (AVE500)
Line regulation	\pm 0.5%
Load regulation	\pm 0.5%
Noise/ripple	120 mV
Overvoltage protection	Hiccup
Overtemperature protection	Auto-restart
Switching frequency	280 kHz
Temperature co-efficient	\pm 0.02/ $^{\circ}$ C
Isolation	
I/O isolation	2250 Vdc min.

Environmental Specifications

Operating ambient temperature range	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Storage temperature	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS compliant	6/6

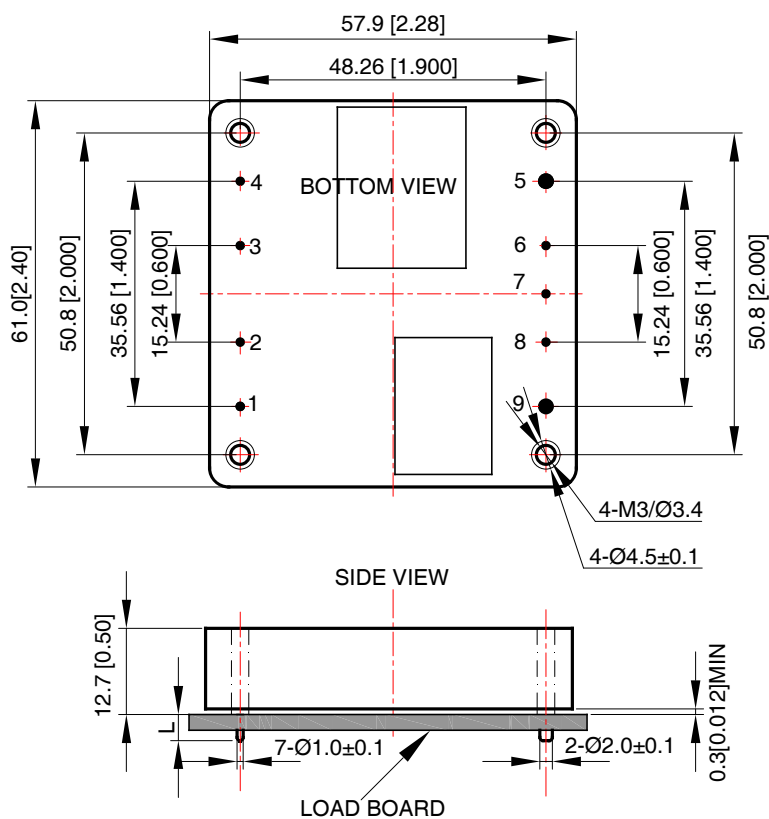
Ordering Information

Model number	Input voltage	Output voltage	Power
AVE450-48S50-6L	36 - 75 Vin	50 V @ 9 A	450 W
AVE450-48S50P-6L	36 - 75 Vin	50 V @ 9 A	450 W
AVE500-48S50-6L	36 - 75 Vin	50 V @ 10 A	500 W
AVE500-48S50P-6L	36 - 75 Vin	50 V @ 10 A	500 W

Standard version is negative enable

- 6 = 3.8 mm pin length
- L = RoHS 6/6 compliance
- M = Thread hole fixture
- P = Positive remote control

Mechanical Drawings



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.]

Pin Length Option

Device code suffix	L
-4	4.8 mm ± 0.5 mm
-6	3.8 mm ± 0.5 mm
-8	2.8 mm ± 0.5 mm
None	5.8 mm ± 0.5 mm

Pin Designations

Pin No.	Name	Function
1	V_{in+}	Positive input voltage
2	CNT	Remote ON/OFF control
3	Case	Case
4	V_{in-}	Negative input voltage
5	V_{o-}	Negative output voltage
6	S-	Negative remote sense
7	Trim	Output voltage trim
8	S+	Positive remote sense
9	V_{o+}	Positive output voltage

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.

WORLDWIDE OFFICES

Americas

2900 South Diablo Way
Suite B100
Tempe, AZ 85282, USA
+1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry 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



www.artesyn.com

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