

AVE600 Series

600 Watts

Data Sheet

Total Power: 600 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
- 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 ² :	95.6%
Output	
Voltage tolerance:	+/-1%
Line regulation:	±0.33%
Load regulation:	±0.2%
Noise/ripple:	200 mV
Over voltage protection:	Hiccup: Auto-restart
Over temperature protection:	Auto-restart
Switching frequency:	140 kHz
Temperature coefficient:	±0.02/°C
Isolation	
I/O isolation:	1500 VDC min.

Environmental Specifications

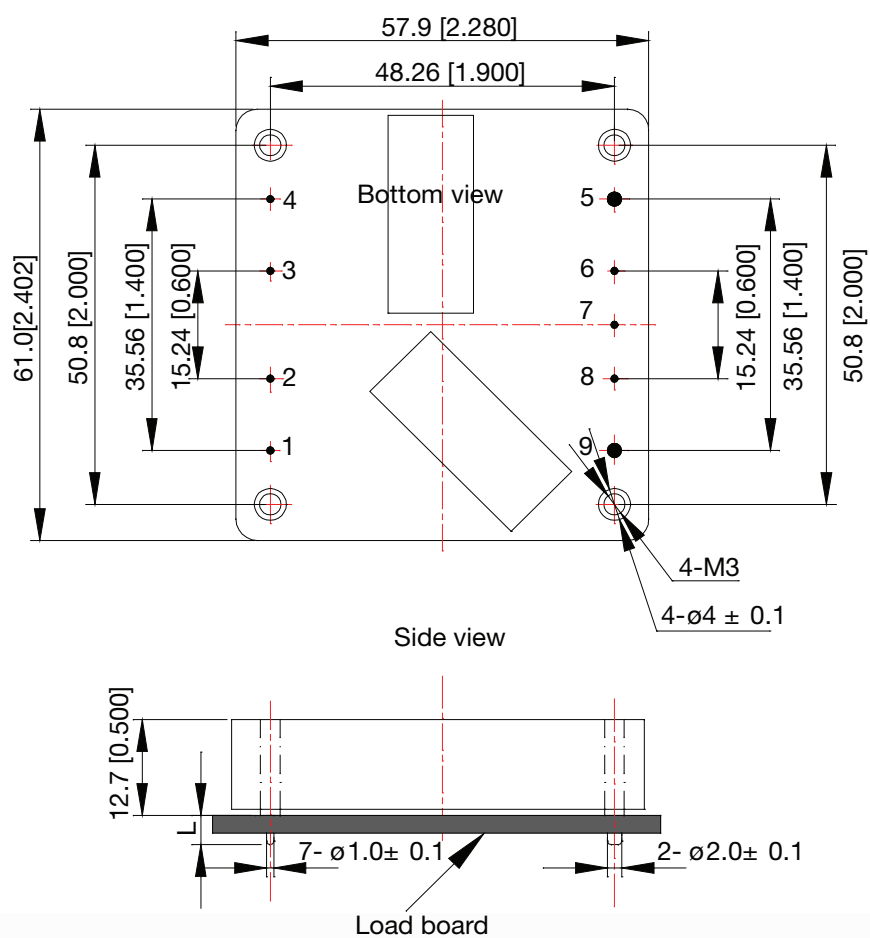
Operating ambient temperature range:	-40 °C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	1.5 Million hours
RoHS Compliant	

Ordering Information

Model number	Input voltage	Output voltage	Power
AVE600-48S12B-4L	36 - 75 V _{in}	12 V @ 50 A	600 W

- Standard version is negative enable
- "-L" = Rohs6 compliance
- "-4" = 4.8mm pin length
- "-B" = Baseplate

Mechanical Drawings



Unit: mm[inch]

Bottom view: pin on upside

Tolerance: X.Xmm \pm 0.5mm[X.X in. \pm 0.02in.]

X.XXmm \pm 0.25mm[X.XX in. \pm 0.01in.]

Base plate

Pin Length Option

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

Pin Designations

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

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

ARTESYNTM
An Advanced Energy Company

www.artesyn.com

Artesyn Embedded Technologies, Artesyn Embedded Power, Artesyn, and all Artesyn related logos 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. Specifications are subject to change without notice. © 2019 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

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