

AVQ300 Series

300 Watts

Data Sheet

Total Power: 300 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
- Basic insulation system
- Openframe structure with baseplate option

SAFETY

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



Electrical Specifications

Input	
Input range	36 - 75 VDC
Efficiency ²	95% @ 12V o
Output	
Voltage tolerance	+/-1.6%
Line regulation	24 mV
Load regulation	24 mV
Noise/ripple	3.3 Vo: 150 mV
Overshoot protection	Hiccup
Overtemperature protection	Auto-restart
Switching frequency	145 KHz
Temperature co-efficient	±0.02/°C
Isolation	
I/O isolation	1500 VDC min.

Environmental Specifications

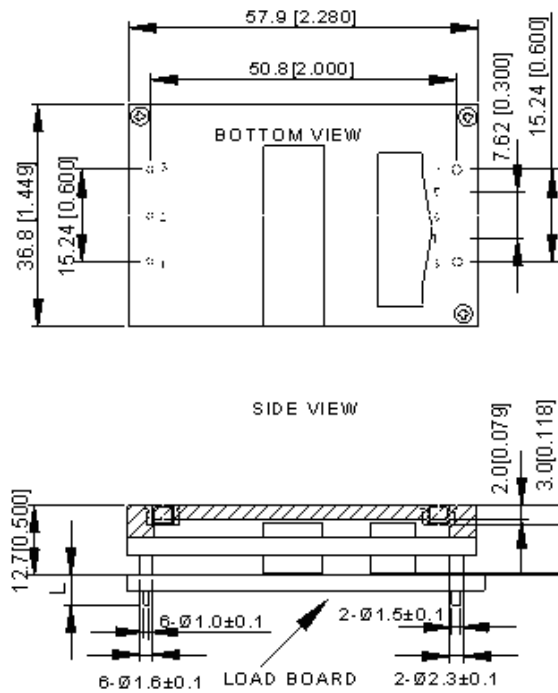
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	

Ordering Information

Model number	Input voltage	Output voltage	Power
AVQ300-48S12-6L	36 - 75 Vin	12 V @ 25 A	300 W
AVQ300-48S12B-6L	36 - 75 Vin	12 V @ 25 A	300 W

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-L" = RoHS 6 compliance
- "B" = Baseplate

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

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 S.Diablo Way
 Tempe, AZ 85282
 USA
 +1 888 412 7832

Europe (UK)

Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX
 United Kingdom
 +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/power
 For support: productsupport.ep@artesyn.com