ARTESYN AVE350-24 SERIES

350 Watts



Advanced Energy's Artesyn AVE350B series of isolated DC-DC converters is designed specifically to provide the main 28 Vdc supply for RF power amplifiers in small-cell, low power and remote radio head (RRH) telecommunications applications. The series comprises two single output models: the AVE350B-24S28-6, which accepts a wide range input of 18 to 36 Vdc; and the AVE350B-48S28-6, which accepts a wide range input of 36 to 75 Vdc.

DATA SHEET

Total Power:

350 Watts

Input Voltage:

18 - 36 V

# of Outputs:

Single

RoHS 6/6 COMPLIANT

SPECIAL FEATURES

- 2:1 Wide input range
- Extra wide trim range 14 V - 33 V for 28 Vo
- 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

- TUV/CE 62368-1
- UL/cUL 60950-1

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ELECTRICAL SPECIFICATIONS

Input	
Input range:	18 - 36 VDC
Efficiency[2]	94%
Output	
Voltage tolerance:	+/-1%
Line regulation:	±0.5%
Load regulation:	±0.5%
Noise/ripple:	300 mV
Over voltage protection:	Latch off
Over temperature protection:	Auto-restart
Switching frequency:	220 KHz
Temperature coefficient:	±0.02/°C
Isolation	
I/O isolation:	1500 VDC min.

ENVIRONMENTAL SPECIFICATIONS

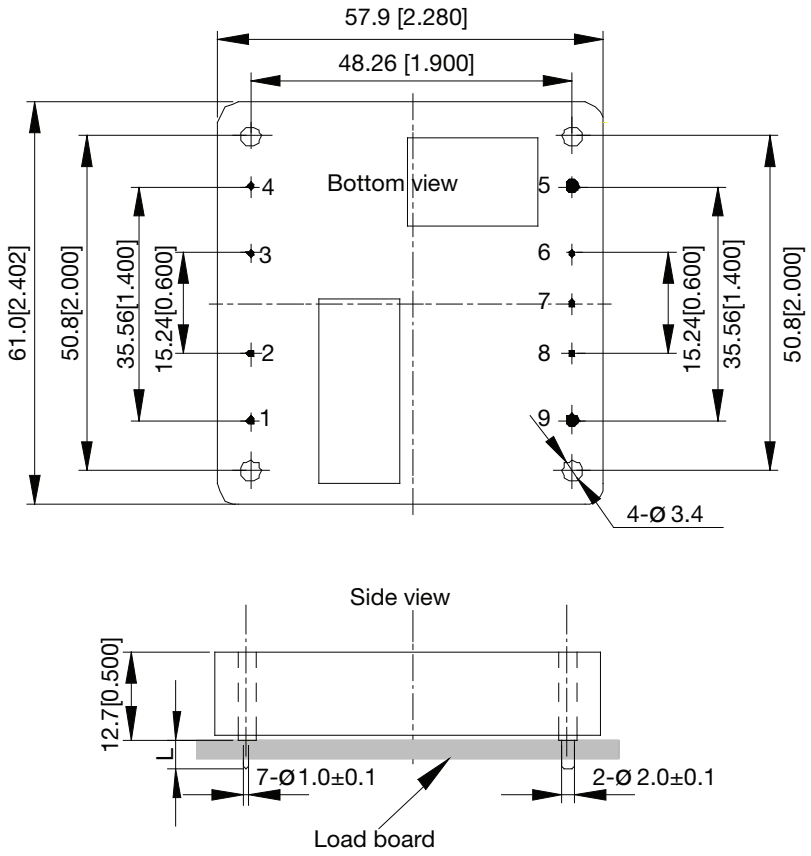
Operating ambient temperature range:	-40 °C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	1 Million hours
RoHS Compliant	

ORDERING INFORMATION

Model number	Input voltage	Output voltage	Power
AVE350-24S28-6	18-36 Vin	28 V @ 12.5 A	350 W
AVE350-24S28P-6	18-36 Vin	28 V @ 12.5 A	350 W

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-P"= Positive enable

MECHANICAL DRAWINGS



Unit: mm[inch]

Bottom view: pin on upside

Tolerance: X.Xmm±0.5mm[X.X in.±0.02in.]
X.XXmm±0.25mm[X.XX in.±0.01in.]

PIN LENGTH OPTION

Device code suffix	L
-4	4.8mm ± 0.2mm
-6	3.8mm ±0.2mm
-8	2.8mm ± 0.2mm
None	5.8mm ± 0.2mm

PIN DESIGNATIONS

Pin No.	Name	Function
1	Vin+	Positive input voltage
2	CNT	Remote control
3	Case	Pin connected to baseplate
4	Vin-	Negative input voltage
5	Vo-	Negative output voltage
6	S-	Negative sense
7	Trim	Output voltage trim
8	S+	Positive sense
9	Vo+	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.

ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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