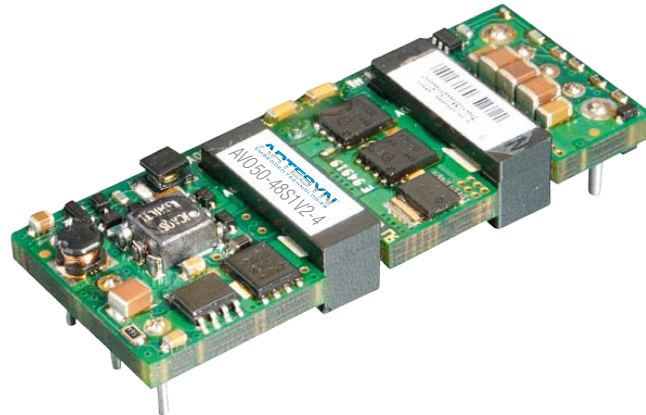


AV050 Series

50 Watts

Data Sheet

Total Power: 50 Watts
Input Voltage: 36 - 75V
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
- Pre-bias start-up capability
- Open-frame structure

SAFETY

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

Electrical Specifications

Input	
Input range:	36 - 75 VDC
Efficiency:	91% @ 3.3V, 5V and 12V
Output	
Maximum power:	+/-1% to +/-1.6%
Line regulation:	5V: 4mV; 12V: 9mV; Others: 1mV
Load regulation:	5V and 12V: 5mV; Others: 1mV
Noise/ripple:	1.2V, 2.5V, 3.3V: 50mV; 1.5V, 5V, 12V: 55mV; 1.8V: 45mV
Over voltage protection:	Auto-restart
Over temperature protection:	
Switching frequency:	310KHz
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:	2.5 Million hours
RoHS Compliant	

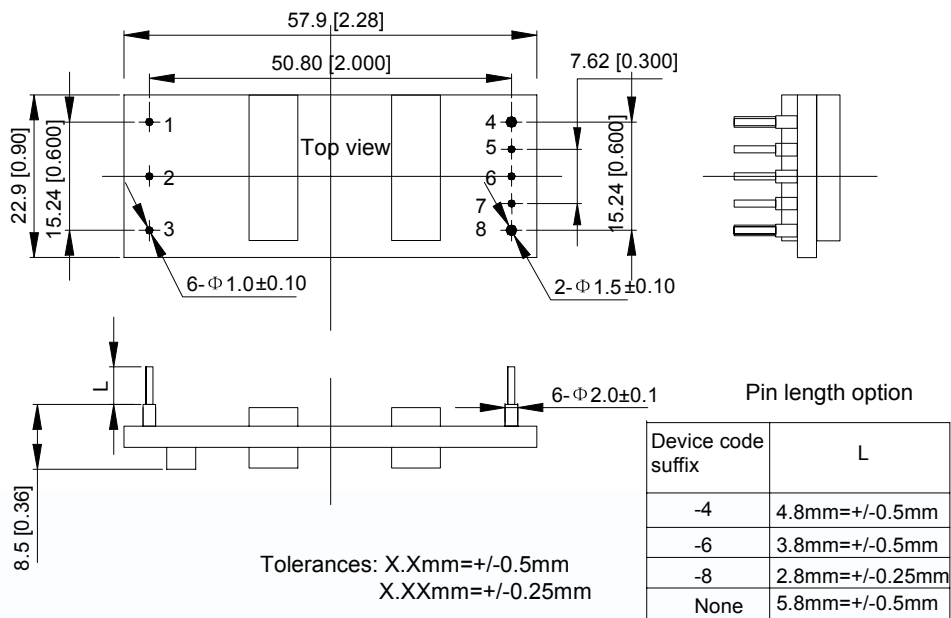
Ordering Information

Model number	Input voltage	Output voltage	Power
AVO50-48S1V2-4	36 - 75Vin	1.2V @ 20A	24W
AVO50-48S1V2P-4	36 - 75Vin	1.2V @ 20A	24W
AVO50-48S1V5-4	36 - 75Vin	1.5V @ 20A	30W
AVO50-48S1V5P-4	36 - 75Vin	1.5V @ 20A	30W
AVO50-48S1V8-4	36 - 75Vin	1.8V @ 20A	36W
AVO50-48S1V8P-4	36 - 75Vin	1.8V @ 20A	36W
AVO50-48S2V5-4	36 - 75Vin	2.5V @ 20A	50W
AVO50-48S2V5P-4	36 - 75Vin	2.5V @ 20A	50W
AVO50C-48S3V3-6L	36 - 75Vin	3.3V@ 15A	49.5W
AVO50C-48S3V3P-6L	36 - 75Vin	3.3V@ 15A	49.5W
AVO50-48S05-4	36 - 75Vin	5V @ 10A	50W
AVO50-48S12-6L	36 - 75Vin	12V @ 4.2A	50W
AVO50-48S12P-4	36 - 75Vin	12V @ 4.2A	50W

Notes:

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-4" = 4.8mm pin length
- "-P" = Positive enable

Mechanical Drawings



Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 yr
3. Label and logo appearance may vary from what is shown on 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

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