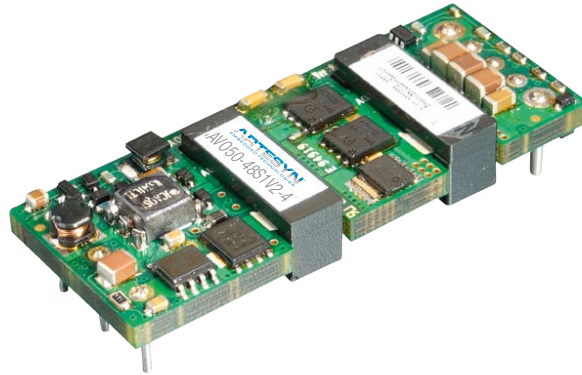


AVO50 Series

50 Watts

Data Sheet

Total Power: 50 Watts
Input Voltage: 36 - 75 Vdc
of Outputs: Single



SPECIAL FEATURES

- 2:1 wide input range
- Optimized 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% @ 3.3 V, 5 V and 12 V
Output	
Maximum power	+/-1% to +/-1.6%
Line regulation	5 V: 4 mV; 12 V: 9 mV; Others: 1 mV
Load regulation	5 V and 12 V: 5 mV; Others: 1 mV
Noise/ripple	1.2 V, 2.5 V, 3.3 V: 50 mV; 1.5 V, 5 V, 12 V: 55 mV; 1.8 V: 45 mV
Overvoltage protection Overtemperature protection	Auto-restart
Switching frequency	310 KHz
Temperature coefficient	$\pm 0.02 / ^\circ\text{C}$
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 - 75 Vin	1.2 V @ 20 A	24 W
AVO50-48S1V2P-4	36 - 75 Vin	1.2 V @ 20 A	24 W
AVO50-48S1V5-4	36 - 75 Vin	1.5 V @ 20 A	30 W
AVO50-48S1V5P-4	36 - 75 Vin	1.5 V @ 20 A	30 W
AVO50-48S1V8-4	36 - 75 Vin	1.8 V @ 20 A	36 W
AVO50-48S1V8P-4	36 - 75 Vin	1.8 V @ 20 A	36 W
AVO50-48S2V5-4	36 - 75 Vin	2.5 V @ 20 A	50 W
AVO50-48S2V5P-4	36 - 75 Vin	2.5 V @ 20 A	50 W
AVO50C-48S3V3-6L	36 - 75 Vin	3.3 V @ 15 A	49.5 W
AVO50C-48S3V3P-6L	36 - 75 Vin	3.3 V @ 15 A	49.5 W
AVO50-48S05-4	36 - 75 Vin	5 V @ 10 A	50 W
AVO50-48S12-6L	36 - 75 Vin	12 V @ 4.2 A	50 W
AVO50-48S12P-4	36 - 75 Vin	12 V @ 4.2 A	50 W

Notes:

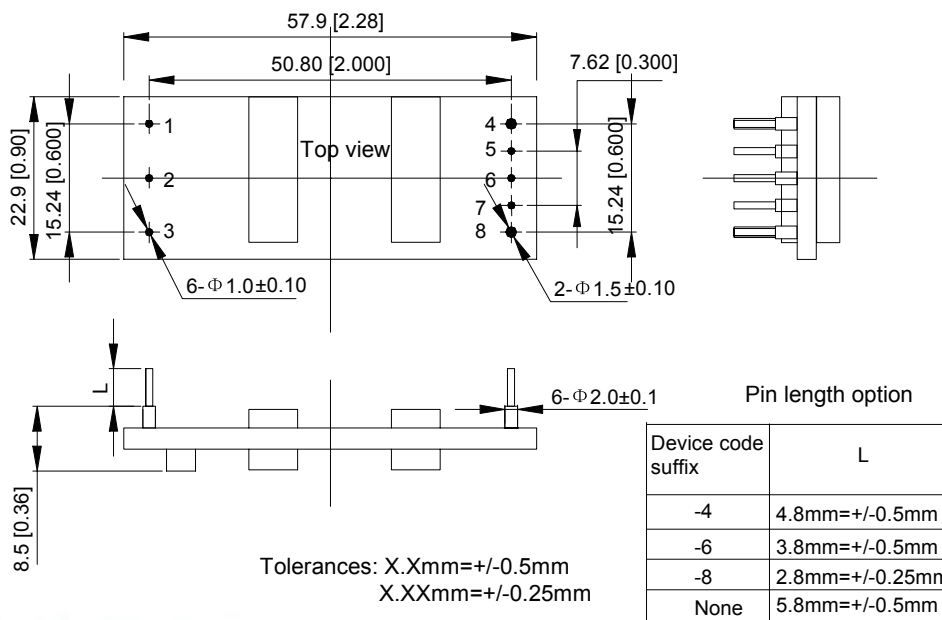
Standard version is negative enable

-6 = 3.8 mm pin length

-4 = 4.8 mm 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 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

Pin Assignments

Pin #	Function	Function
1	+Vin	Positive input voltage
2	CNT	Remote control
3	-Vin	Negative input voltage
4	+Vout	Positive output voltage
5	+Sense	Positive remote sense
6	Trim	Output voltage trim
7	-Sense	Negative remote sense
8	-Vout	Negative output voltage

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