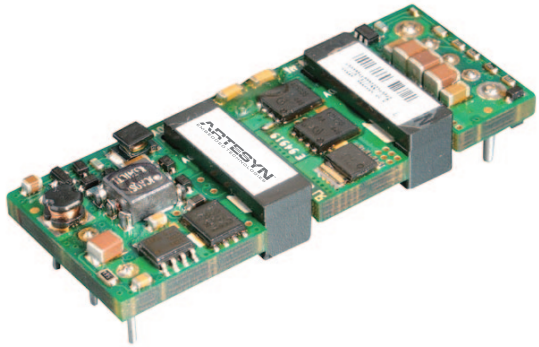
POWER

AVO75 Series

75 Watts

Data Sheet

Total Power: 75 Watts
Input Voltage: 36 - 75 V
# of Outputs: Single



RoHS 6/6 COMPLIANT

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[2]:	91% @ 12V
Output	
Voltage tolerance:	+/-1.2% to +/-1.6%
Line regulation:	5V: 4mV; 12V: 9mV; Others: 1mV
Load regulation:	5V and 12V: 5mV; Others: 1mV
Noise/ripple:	3.3 Vo: 1.2V, 2.5V, 3.3V: 50mV; 5V, 5.0 Vo: 12V: 55mV; 1.8V: 45mV
Over voltage protection: Over temperature protection:	Auto-restart
Switching frequency:	310 KHz
Temperature coefficient:	±0.02/°C
Isolation	
I/O isolation:	2000 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	

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EMBEDDED TECHNOLOGIES

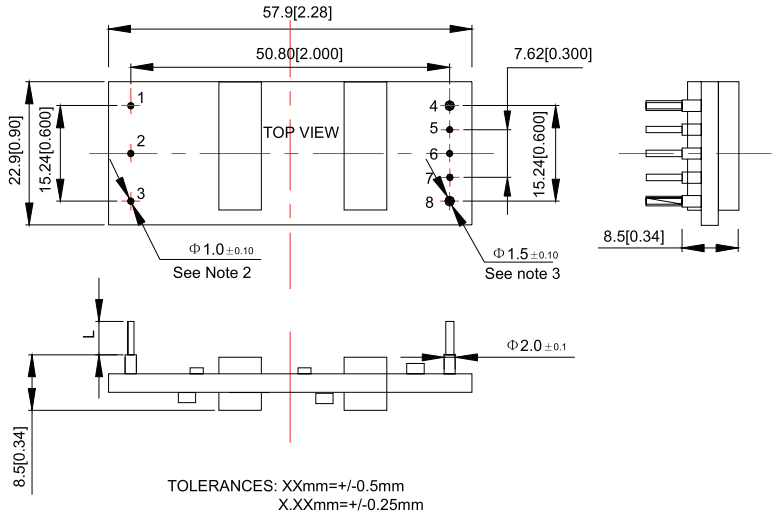
Ordering Information

Model number	Input voltage	Output voltage	Power
AVO75-48S1V2-4	36 - 75 Vin	1.2V @ 25A	30W
AVO75-48S1V2P-4	36 - 75 Vin	1.2V @ 25A	30W
AVO75-48S1V8-4	36 - 75 Vin	1.8V @ 25A	45W
AVO75-48S1V8P-4	36 - 75 Vin	1.8V @ 25A	45W
AVO75-48S2V5-4	36 - 75 Vin	2.5V @ 25A	62.5W
AVO75-48S2V5P-4	36 - 75 Vin	2.5V @ 25A	62.5W
AVO75-48S3V3-4	36 - 75 Vin	3.3V @ 20A	66W
AVO75-48S05-4	36 - 75 Vin	5V @ 15A	75W
AVO75-48S05-6	36 - 75 Vin	5V @ 15A	75W
AVO75-48S05P-4	36 - 75 Vin	5V @ 15A	75W
AVO75-48S12P-4	36 - 75 Vin	12V @ 6.3A	75W

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

Mechanical Drawings

Top & pin side view



Pin Length Option

Device Code Suffix	L
-4	4.8mm+/-0.5mm
-6	3.8mm+/-0.5mm
-8	2.8mm+/-0.25mm
NONE	5.8mm+/-0.5mm

Notes:
1. Un-dimensioned components are for visual reference only.
2. Pins 1~3, 5~7 are 1.0mm diameter with 2.0mm diameter standoff shoulders.
3. Pins 4, 8 are 1.5mm diameter with no standoff shoulders.

Pin Designations

Pin No.	Function	Pin No.	Function
1	+Vin	5	+Sense
2	CNT	6	Trim
3	-Vin	7	-Sense
4	+Vo	8	-Vo

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.

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