

AVO240 Series

240 Watts

Data Sheet

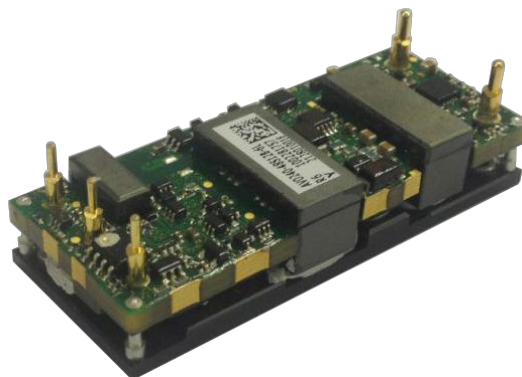
Total Power: 240 Watts
Input Voltage: 41 - 75 V
of Outputs: Single

SPECIAL FEATURES

- 2:1 wide input range
- Output voltage 12V
- 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	41 - 75 Vdc
Efficiency ²	94% @ 12 Vo
Output	
Voltage tolerance	11.6 - 12.2 V
Line regulation	± 0.3%
Load regulation	± 0.5%
Noise/ripple	70 mV
Overvoltage protection	Auto-restart
Overtemperature protection	
Switching frequency	150 kHz
Temperature co-efficient	± 0.02/°C
Isolation	
I/O isolation	1500 Vdc min.

Environmental Specifications

Operating ambient temperature	-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
AVO240-48S12-6L	41 - 75 Vin	12 V @ 20 A	240 W
AVO240-48S12B-6L	41 - 75 Vin	12 V @ 20 A	240 W
AVO240-48S12P-6L	41 - 75 Vin	12 V @ 20 A	240 W
AVO240-48S12PB-6L	41 - 75 Vin	12 V @ 20 A	240 W

Standard version is negative enable

"-6" = 3.8 mm pin length

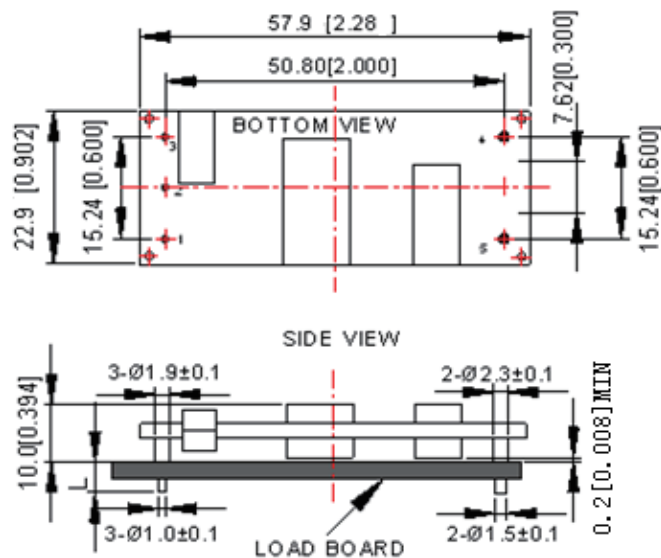
"-4" = 4.8 mm pin length

"-P" = Positive enable

"-B" = baseplate

Mechanical Drawings

AVO240-48S12-6L



UNIT: mm[inch]

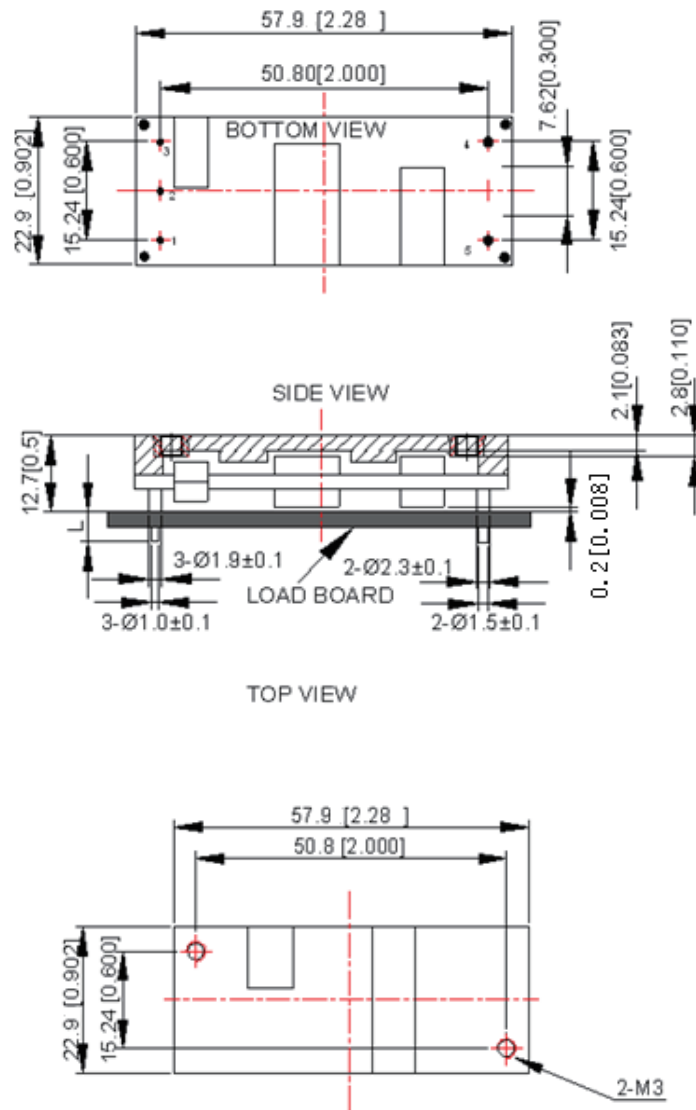
BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.X in.±0.02in.]

X.XXmm±0.25mm[X.XX in.±0.01in.]

Mechanical Drawings

AVO240-48S12B-6L



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	4.8 mm $\pm$ 0.2 mm
-6	3.8 mm $\pm$ 0.2 mm
-8	2.8 mm $\pm$ 0.2 mm
None	5.8 mm $\pm$ 0.2 mm

Pin Designations

Pin No.	Name	Function
1	V_{in+}	Positive input voltage
2	Remote ON/OFF	Remote control
3	V_{in-}	Negative input voltage
4	V_{o-}	Negative output voltage
5	V_{o+}	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.

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