

AVO100-48S28B-6L

100 Watts

Data Sheet

Total Power: 100 Watts
Input Voltage: 36 - 75 V
of Outputs: Single

SPECIAL FEATURES

- Delivers up to 3.57 A output current
- Ultra-high efficiency 92% typ. at full load
- Excellent thermal performance
- No minimum load requirement
- Basic isolation
- High power density
- Low output noise
- Reflow soldering enabled
- RoHS 6 compliant

SAFETY

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



Electrical Specifications

Input specification	
Input range	36 Vdc to 75 Vdc
Input surge	100 V for 100 mSec
Efficiency	92%
Control specification	
Enable	TTL compatible positive or negative enable
Output specification	
Output voltage	28 Vdc
Trim range	-64% - +116%
Output current	3.57 A
Ripple and noise	30 mV pk-pk nom 200 mV max. pk-pk
Regulation (total error band)	+/-2% Vout
Over current protection	6.4 A max. Typ
Over voltage protection	130% Vout nominal
Over temp protection	120 deg °C
Switching frequency	Fixed to 280 kHz
Isolation voltage	1500 Vdc
Transient response	130 mV deviation, 100 mSec recovery. 25%-50%-25% load 0.1A/uSec
UVLO Turn-on	34 Vdc Typical
UVLO Turn-off	32 Vdc Typical

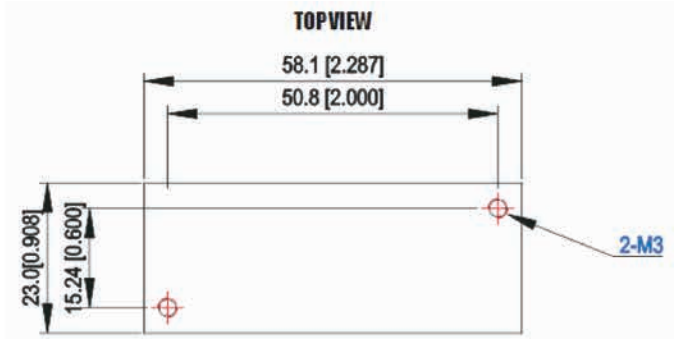
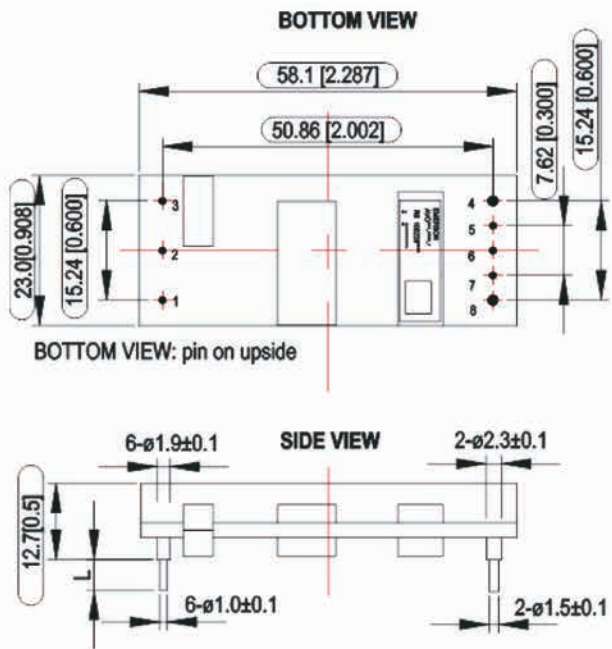
Environmental Specifications

Operating ambient temperature range:	-40 °C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	1.5 Million hours
RoHS Compliant	RoHS 6 compliant

Ordering Information

Model number	Description
AVO100-48S28P-6L	3.8 mm pin length; positive on/off logic; open frame; R6 compliant
AVO100-48S28-6L	3.8 mm pin length; negative on/off logic; open frame; R6 compliant
AVO100-48S28BP-6L	3.8mm pin length; positive on/off logic; baseplate; R6 compliant
AVO100-48S28B-6L	3.8mm pin length; negative on/off logic; baseplate; R6 compliant

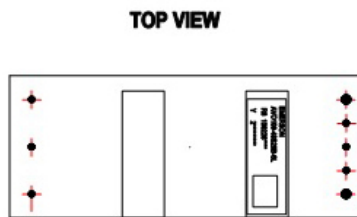
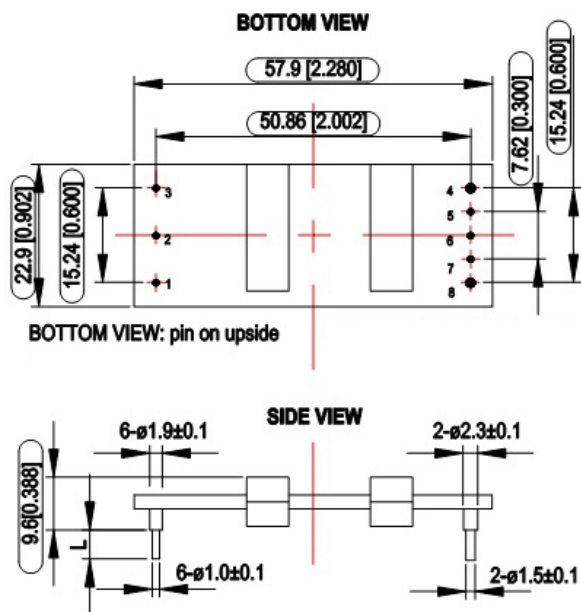
Mechanical Drawings



Pin Length Option

Device code suffix	L
-4	4.8 mm \pm 0.25 mm
-6	3.8 mm \pm 0.25 mm
-8	2.8 mm \pm 0.25 mm
None	5.8 mm \pm 0.25 mm

Mechanical Drawings



UNIT: mm[inch] L=3.8±0.25mm
 TOLERANCE: X.Xmm±0.5mm[X.X in.±0.02in.]
 X.XXmm±0.25mm[X.XX in.±0.01in.]

Notes: Dimensions within the box are critical dimensions.

Pin Designations (AVO100-48S28B-6L)

Pin No.	Name	Function
1	V _{in+}	Positive input terminal
2	Remote ON/OFF	ON/OFF control terminal
3	V _{in-}	Negative input terminal
4	V _{o-}	Negative output terminal
5	S-	Negative remote sense
6	Trim	Output voltage trim
7	S+	Positive remote sense
8	V _{o+}	Positive output terminal

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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