

# ARTESYN AVO100-48S28B-6L

100 Watts



SAFETY

TUV/CE 62368-1

UL/cUL 60950-1

# DATA SHEET

#### **Total Power:**

100 Watts

E ARTESYN

# 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

# AVO100-48S28B-6L

## **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 UVLO Turn-off	34 Vdc Typical 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	

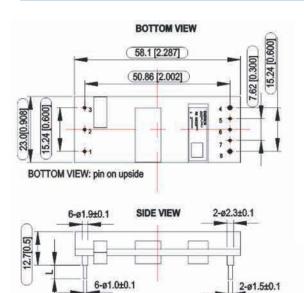


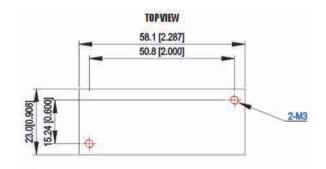
# AVO100-48S28B-6L

# 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 ± 0.25 mm
-6	3.8 mm ± 0.25 mm
-8	2.8 mm ± 0.25 mm
None	5.8 mm ± 0.25 mm

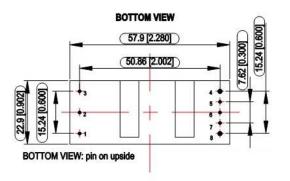


# MECHANICAL DRAWINGS

6-ø1.9±0.1

6-ø1.0±0.1

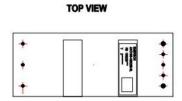
9.6[0.388]



SIDE VIEW

2-ø2.3±0.1

2-ø1.5±0.1



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 whitin the box are critical dimensions.

# PIN DESIGNATIONS (AVO100-48S28B-6L)

Pin No.	Name	Function
1	V <sub>in</sub> +	Positive input terminal
2	Remote ON/OFF	ON/OFF control terminal
3	V <sub>in</sub> -	Negative intput terminal
4	V <sub>o</sub> -	Negative output terminal
5	S-	Negative remote sense
6	Trim	Output voltage trim
7	S+	Positive remote sense
8	V <sub>o</sub> +	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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Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

#### PRECISION | POWER | PERFORMANCE

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