

# AVE-S High Efficiency Half Brick Series 250 Watt Single Output

## Features

- 250 watts of output power
- Standard half brick 2.4" x 2.28" x 0.5"
- Isolated Output
- Control Function
- Trim Function
- Overvoltage Protection
- Overcurrent Protection
- Basic Isolation

## Environmental

- Operating case temperature range:  
-40°C to 100°C
- Storage temperature:  
-55°C to 125°C
- Over Temperature Protection:  
101°C to 120°C
- MTBF: > 2 million hrs

## Safety

UL	UL60950
CSA	CSA22.2-60950
TUV/CE	IEC/EN60950

## Electrical Specifications

### Input

Input Range 36 to 75 Vdc

### Output

Voltage Setpoint Accuracy  $\pm 1.5\%V_o$  max.

Voltage Adjust 80% to 110%  $V_o$

Line Regulation  $\pm 0.2\%V_o$  max.

Load Regulation  $\pm 0.5\%V_o$  max.

Ripple and Noise 240mVpp max.

Transient Response 3% $V_o$  max. ;  
recovery <500uSec max.

(25% step load change from 50% $I_o$ )  
di/dt:1A/10 $\mu$ s

### Control

Control Voltage

Positive logic

High=on 3.5 to 12 Vdc

Low=off -0.7 to 1.2 Vdc

Negative logic

Low=on -0.7 to 1.2 Vdc

High=off 3.5 to 12 Vdc

Control Current

1 mA max.

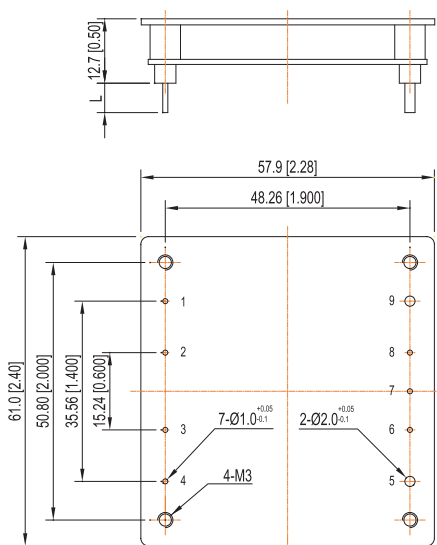


## Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	28V	9A	91%	AVE250-48S28

## Dimensions

Top view



## Pin Assignments

1. +Vin
2. CNT
3. Case
4. -Vin
5. -Vout
6. -Sense
7. Trim
8. +Sense
9. +Vout

## Pin Length

4.8mm	-4
3.8mm	-6
2.8mm	-8
5.8mm	None

Notes: 1. "Top view" means the base plate face to viewer.  
 2. The detail and recommended hole pattern layout is available in the Application Manual.