

AG15-S High Efficiency Low Power Series 15 Watt Single Output

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Features

- Small size and low profile:
2.0" x 1.0" x 0.4"
(50.8 x 25.4 x 10.16mm³)
- High efficiency and power density: 87%
- 2:1 wide input voltage of 18-36V,
36-75V
- Isolated output: 2.5V, 3.3V, 5V, 12V,
- Input LVP, output OVP and OCP
- Remote control and trim function

Environmental

- Operating case temperature range:
-40°C to 105°C
- Storage temperature:
-55°C to 125°C
- MTBF: > 1.5 million hrs

Safety

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

Electrical Specifications

Input

Input Range	18 to 36 Vdc 36 to 75 Vdc
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Output

Voltage Setpoint Accuracy	50mV for 2.5,3.3,5Vout 120mV for 12Vout
Voltage Adjust	90% to 110% Vo
Line Regulation	0.2%Vo max.
Load Regulation	0.5%Vo max.
Ripple and Noise	100mVpp max. (120mVpp for 12Vout)
Transient Response	5%Vo max. ; recovery <200uSec max. (25% step load change from 50%Io) di / dt :1A / 10μs

Control

Control Voltage	
Positive logic	
High=on	3.5 to 10 Vdc
Low=off	-0.7 to 1.2 Vdc
Negative logic	
Low=on	-0.7 to 1.2 Vdc
High=off	3.5 to 10 Vdc
Control Current	1.5 mA max.



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
24V	3.3V	4.5A	84%	AG15-24S03
48V	2.5V	4.5A	81%	AG15-48S2V5
48V	3.3V	4.5A	85%	AG15-48S03
48V	5V	3A	85%	AG15-48S05
48V	12V	1.25A	87%	AG15-48S12

Suffix with:

/T 10% trim

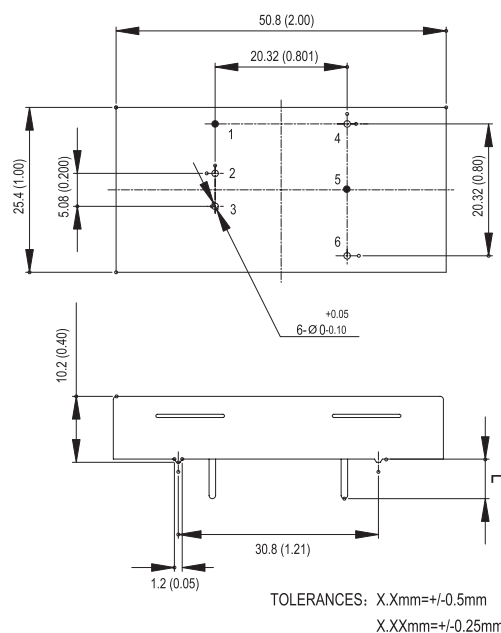
/N Control pin option with negative logic (low = on, open/high = off).

/P Control pin option with positive logic (open/high = on, low = off).

The trim and control pins are not present if the trim and control options are not selected.

Dimensions

Top view



Notes: 1. "Top view" means the logo face to viewer.

2. The detail and recommended hole pattern layout is available in the Application Manual.

Pin Assignments

1. CNT
2. -Vin
3. +Vin
4. -Vo
5. Trim
6. +Vo

Pin Length

Long pin = 5.6 mm /L

Short pin = 2.8 mm /S

AG15-D High Efficiency Low Power Series 15 Watt Dual Outputs

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Features

- Small size and low profile:
2.0" x 1.0" x 0.4"
(50.8 x 25.4 x 10.16mm³)
- High efficiency and power density: 87%
- 2:1 wide input voltage of 36-75V
- Isolated output: $\pm 12V$
- Input LVP, output OVP and OCP
- Remote control function

Environmental

- Operating case temperature range:
-40°C to 105°C
- Storage temperature:
-55°C to 125°C
- MTBF: > 2.2 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 $\pm 1\%V_o$ max.(+12V output)
 $\pm 5\%V_o$ max.(-12V output)

Line Regulation $\pm 0.2\%V_o$ max.(+12V output)
 $\pm 2\%V_o$ max.(-12V output)

Load Regulation $\pm 0.5\%V_o$ max.(+12V output)
 $\pm 10\%V_o$ max.(-12V output)

Ripple and Noise 120mVpp max.

Transient Response 5% V_o max. ;
recovery <200uSec max.
(25% step load change from 50% I_o)
di / dt :1A / 10 μ s

Control

Control Voltage

Positive logic

High=on 3.5 to 10 Vdc

Low=off -0.7 to 1.2 Vdc

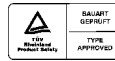
Negative logic

Low=on -0.7 to 1.2 Vdc

High=off 3.5 to 10 Vdc

Control Current

1.5 mA max.



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	± 12V	± 0.63A	86%	AG15-48D12

Suffix with:

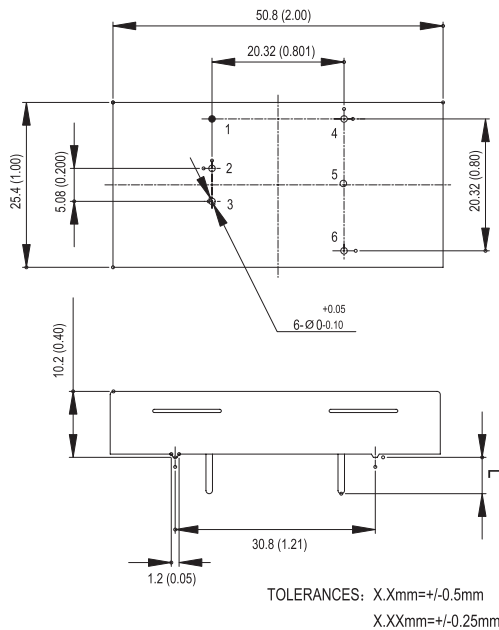
/N Control pin option with negative logic (low = on, open/high = off).

/P Control pin option with positive logic (open/high = on, low = off).

The control pins are not present if the control options are not selected.

Dimensions

Top view



Pin Assignments

1. CNT
2. -Vin
3. +Vin
4. -Vo
5. Com
6. +Vo

Pin Length

Long pin = 5.6 mm /L
Short pin = 2.8 mm /S

Notes: 1. "Top view" means the logo face to viewer.

2. The detail and recommended hole pattern layout is available in the Application Manual.