AM11-5W05V Series Product Specifications

5W low power AC-DC step-down power supply



Chengdu Ebyte Electronic Technology Co.,Ltd.

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Chapter 1 Product Overview

1.1. Introduction

AM11-5W05V is an ultra-small size switching power supply module, AC and DC dual-use, input voltage 85~264Vac, ultra-low ripple, ultra-low power consumption, high efficiency, safety isolation, high reliability and other advantages; greatly reduce user design Threshold; users do not need to consider stability, even in extremely complex voltage environment, the output can be stable.

1.2. Features

- Ultra low ripple: the full load ripple is less than 150mV;
- Ultra-small size: 34.7x20.6x15.5mm.
- Input voltage: universal voltage 85 ~ 264Vac;
- Protection measures: overvoltage protection, overcurrent protection, short circuit protection, overtemperature protection;
- High-quality solution: greatly improve its work efficiency;

1.3. Application scenarios

- Car charging pile;
- Security alarm;
- Smart home;
- Industrial, electric power, instrumentation;
- Single chip motherboard (MCU);
- Intelligent street lamps, energy-saving lamps;
- Intelligent switch, socket;
- RF communication equipment;
- Set-top box power supply;
- Computer and server auxiliary power supply;

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Chapter 2 Parameters

2.1. Limit parameters

Item	Main parameters	Min	Max	Note
1	Input voltage（Vac）	85	264	Vac
2	Output power（W）	0	5	W
3	Working temperature（℃）	-40	+85	ta=40℃, tc=85℃

2.2. Working Parameters

Item	Main parameters	Min	Typical value	Max	Notes
1	Input voltage(Vac)	100	220	250	Vac
2	Frequency(Hz)	-	50/60	-	Hz
3	Output power(W)	0	-	5	W
4	Working temperature(℃)	-40	+25	85	ta=40℃, tc=85℃
5	Output voltage(Vdc)	4.9	5	5.1	V
6	Continuous current(mA)	0	-	1000	mA
7	Ripple noise(mV)	-	-	150	mV
8	average efficiency(n%)	-	75	-	%
9	Overcurrent Protection(%)	110	-	130	%
10	Working humidity(RH%)	20	-	90	no condensation
11	storage temperature(℃)	-40	+25	+85	Dry storage at room temperature
12	Storage humidity(RH%)	10	-	90	Dry storage at room temperature

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Charpter 3 Basic operation

3.1. Notes

- The operation of this module requires certain professional skills, and it is strictly prohibited for non-professionals to operate it!
- It is strictly forbidden for the human body to touch the L and N power lines after power-on to prevent accidents caused by electric shock. It is recommended to increase the isolation at the front of the input.
- The maximum input voltage must not exceed 250Vac, otherwise the module may be permanently damaged.

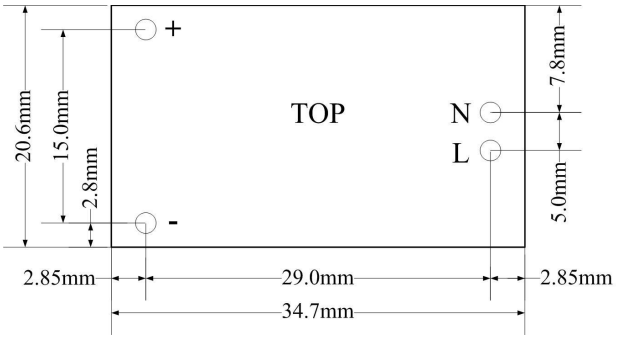
3.2. typical application

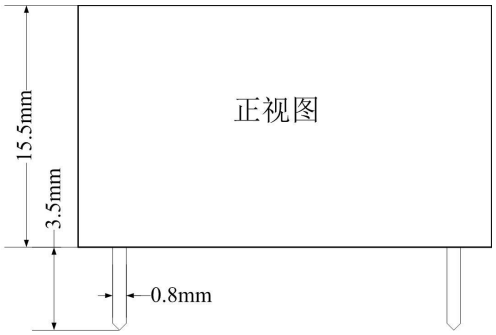


*Note: The input and output do not need to add any components to meet the safety certification requirements.

Chapter 4 Mechanical Characteristics and Pin Definition

4.1. Product size





4.2. Pin definition

Item	Pin name	direction	application
1	L	Input	ACpower input
2	N	Input	ACpower input
3	-	Output	DC output, power ground
4	+	Output	DC output, power is positive

Chapter 5 Product selection

Product mode	Input voltage	output voltage	Output current	efficiency	Installation method
AM11-5W05V	100 ~ 250Vac	5.0V	1A	75%	Plastic plug-in
AM11-5W12V	100 ~ 250Vac	12V	0.416A	80%	Plastic plug-in

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Revise history

Item	Version	Revise date	Revision Notes	Maintenance man
1	V5.0	20220923	Fifth Edition	FX

About us

Sales Hotline: 4000-330-990 Company **Tel:** 028-61399028
Technical support: support@cdebyte.com
Official website: www.ebyte.com
Company Address: Building B5, No. 199, West District Avenue, High-tech West District, Chengdu City, Sichuan Province

成都亿佰特电子科技有限公司
Chengdu Ebyte Electronic Technology Co.,Ltd.

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