AM11-5W12V

5W AC-DC step-down power supply



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Chapter 1 Overview

1.1. Introduction

AM11-5W12V 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. Product Features

- Ultra-low ripple: full load ripple is less than 150mV;超小体积：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, Power, Instrumentation；
- Single chip main intelligent street lamp, energy-saving lamps; board (MCU)；
- Smart switch, socket;
- RF communication equipment;
- Set-top box power supply；
- Computer and server auxiliary power supply;

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Chapter1 Specifications

2.1. Limit parameters

No.	Parameters	Minimum	Maximum	Remark
1	Input Voltage（Vac）	85	264	Vac
2	Output Power（W）	0	5	W
3	Operating temperature（℃）	-40	+85	**ta=40℃,tc=85℃**

2.2. Working parameters

No.	The main parameters	min	Typical value	max	Remark
1	Input voltage(Vac)	100	220	250	Vac
2	Working frequency(Hz)	-	50/60	-	Hz
3	Output Power(W)	0	-	5	W
4	Operating temperature(℃)	-40	+25	85	**ta=40℃,tc=85℃**
5	Output voltage(Vdc)	11.9	12	12.3	V
6	Continuous current(mA)	0	-	416	mA
7	Ripple noise(mV)	-	-	150	mV
8	Average efficiency(n%)	-	80	-	%
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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Chapter1 Basic operation

3.1. Precautions

- Operating this module requires certain professional skills, and it is strictly forbidden for non-professionals to operate it!
- Be sure to carefully study the knowledge of safe use before use.
- After the power is turned on, the human body should strictly contact the L and N power lines to prevent accidents caused by electric shock. It is recommended to increase the isolation of the input front end.
- The maximum input voltage must not exceed 250Vac, otherwise the module may be permanently damaged.
- During daily maintenance, the input power supply should be disconnected first to prevent electric shock and accidental transmission.

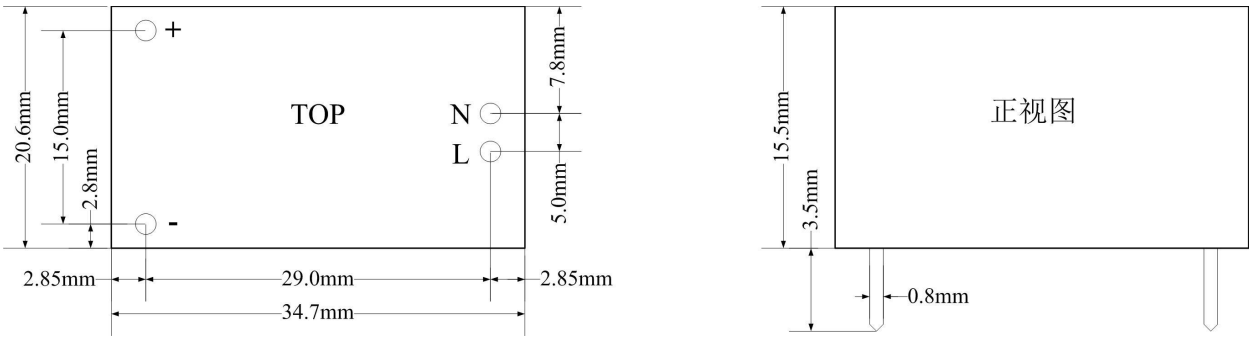
3.2. Typical applications



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

Chapter1 Mechanical Characteristics and Pin Definition

4.1. Product size



4.2. Pin Definition

No.	Pin name	Direction	Usage
1	L	Input	AC Power input
2	N	Input	AC Power input
3	-	Output	DC output, power ground
4	+	Output	DC output, power ground

Chapter1 Product model

Product number	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

Revise history

No.	Version	Modified date	Revision Notes	Maintenance man
1	V5.0	20220923	Fifth edition	FX

5.About us

Technical support: support@cdebyte.com

Documents and RF Setting download link: www.ebyte.com

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