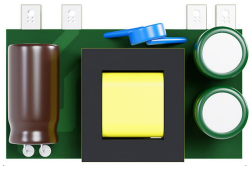
Product characteristics

- ✧ Package type: DIP, lead wire;
- ✧ Temperature range: -40℃ to +85℃;
- ✧ Conversion efficiency: 54 ~ 85%;
- ✧ Isolation withstand voltage: 1500VDC;
- ✧ Input range: 85 ~ 264VAC, 120 ~ 370VDC;
- ✧ Output protection: over-current and short-circuit protection;
- ✧ Application areas: industry, instrumentation, rail transit, smart street lights, smart switches, smart homes.



D DIP



V
DIP



C
Lead wire

Model List

Model	Input voltage range	Output			Efficiency(%) Min./Typ.	Maximum capacitive load（μF）
		Power（W）	Voltage（VDC）	Current（mA） Max./Min		
AM11-5W05V	85 ~ 264VAC 120~370VDC	5	5	1000	75	1000
AM11-5W05C			5	1000	75	1000
AM11-5W05D			5	1000	75	1000
AM11-5W12V			12	416	80	680
AM11-5W12C			12	416	80	680
AM11-5W12D			12	416	80	680
AM11-5W15V			15	333	80	470
AM11-5W15C			15	333	80	470
AM11-5W24V			24	208	85	330
AM11-5W24C			24	208	85	330

*Note: This series cannot be used for RF communication equipment;

Input parameter

Item	Operating conditions	Min	Typ	Max	Unit
Input voltage range	AC input	85	--	264	Vac
Input frequency	DC input	119	--	370	Vdc
Input current	AC input	47	--	63	Hz
Start-up time	AC input (220VAC/50Hz)	--	54	--	mA
Inrush current		--	800	1500	ms
Input filter type	AC input	--	10	--	A

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External fuse		C
Item		1A/250VAC,Slowly disconnect, must connect.

Output parameter

Item	Operating conditions		Min	Typ	Max	Unit
Output voltage accuracy	--	--	--	±3	±5	%
Voltage regulation rate	Full load		--	±1.5	--	%
Load regulation rate	10%~100% load	AM21-12W-V	--	±3	--	%
Ripple noise	20MHz bandwidth, 100% load	AM21-12W-V	--	--	120	mV
Temperature drift coefficient	Full load		--	±0.15	--	%/℃
Short circuit protection			Sustainable, self-recovering			
Overcurrent protection	AM11-5W		110~150% Io self-recovering			
Minimum load			0	--	--	%

General characteristics

Item	Operating conditions	Min	Typ	Max	Unit
Insulation Dynamite	Input - Output	1500	--	--	Vac
Working environment temperature		-40	25	+55	℃
Storage temperature	Wave soldering	-40	25	+85	℃
Working humidity	Manual soldering	--	--	95	%RH
Welding temperature	Input - Output	260 ± 5℃; time：5-10s			
Switching frequency		360 ± 10℃; tim：3-5s			
Mean time between failures		--	65	72	KHz
Insulation Dynamite		MIL-HDBK-217F@25℃ > 100,000 h			

Mechanical specifications

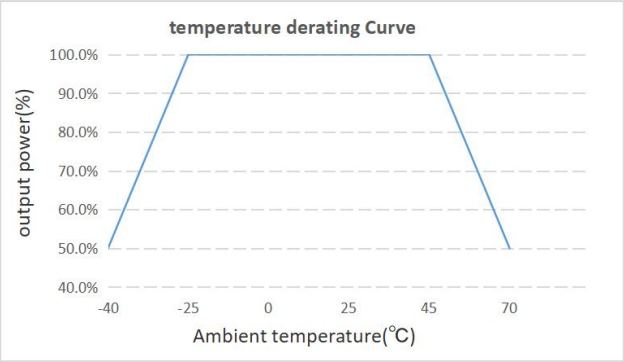
Shell material		Flame retardant and heat resistant
Dimensions	AM11-5W-V	34.7*20.6*15.5mm

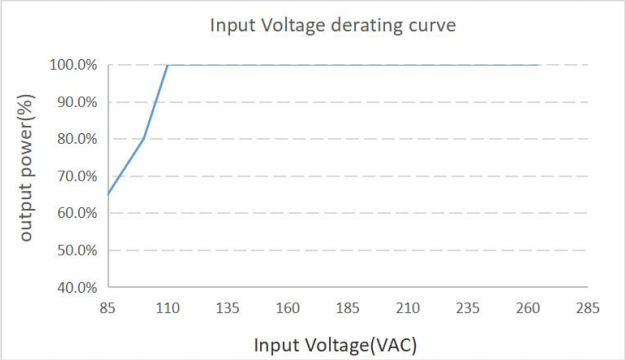
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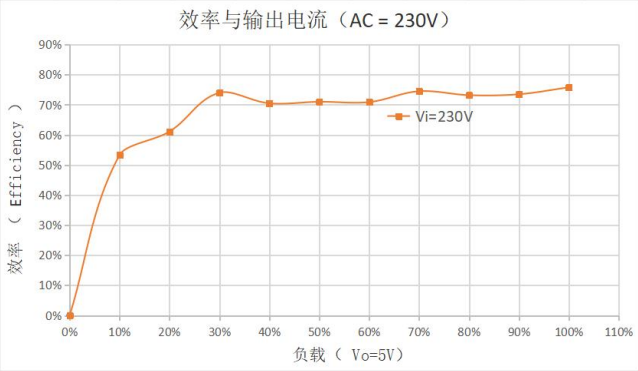
	AM11-5W-C	38*26*23mm
Product weight	AM11-5W-V	18g(Typ.)
	AM11-5W-C	15g(Typ.)
Cooling method		自然冷却

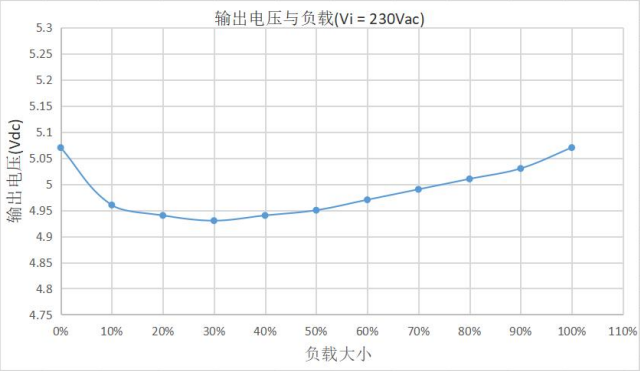
Product characteristic curve

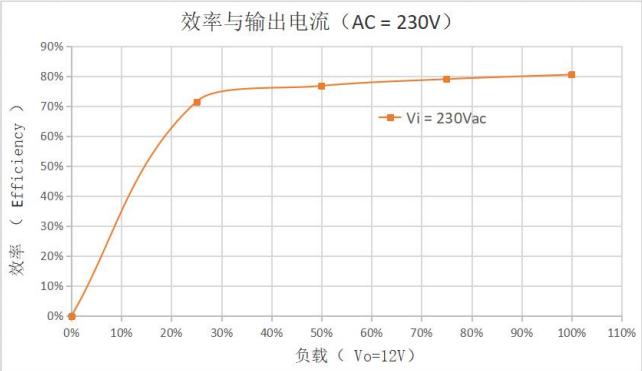


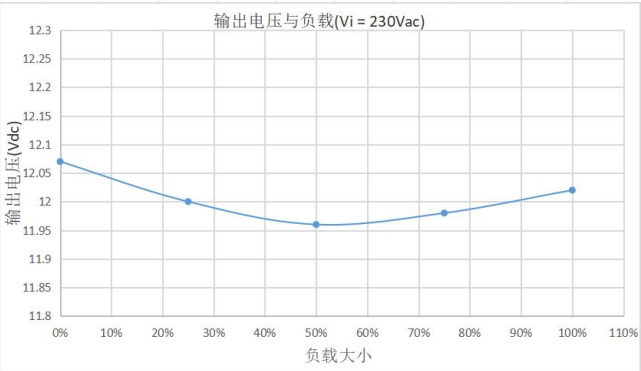


Conversion efficiency and load







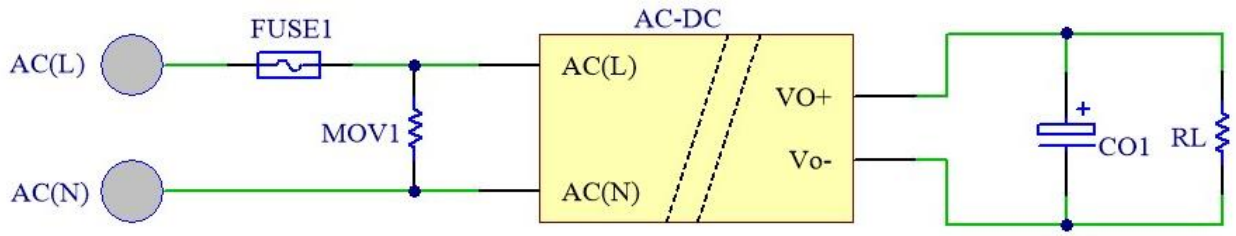


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Reference design

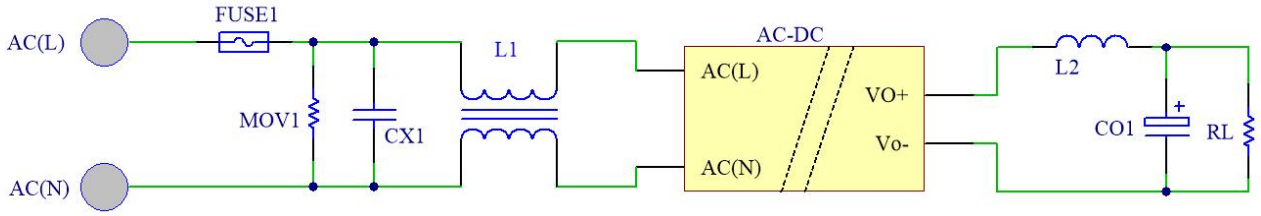
Typical application design



FUSE1	CO1	MOV1
1A/500VAC Slow-blow, required	470uF (High frequency low resistance)	10D 821K

Notes: co1 select High frequency low resistance Electrolytic capacitor

EMC Recommended circuit design



FUSE1	MOV1	CX1	L1	L2	CO1
1A/500V Slow disconnect, must connect	10D 821K	0.1uF/500V	UU9.8 - 10mH	0.47uH SLO0420HR47MTT	470uF

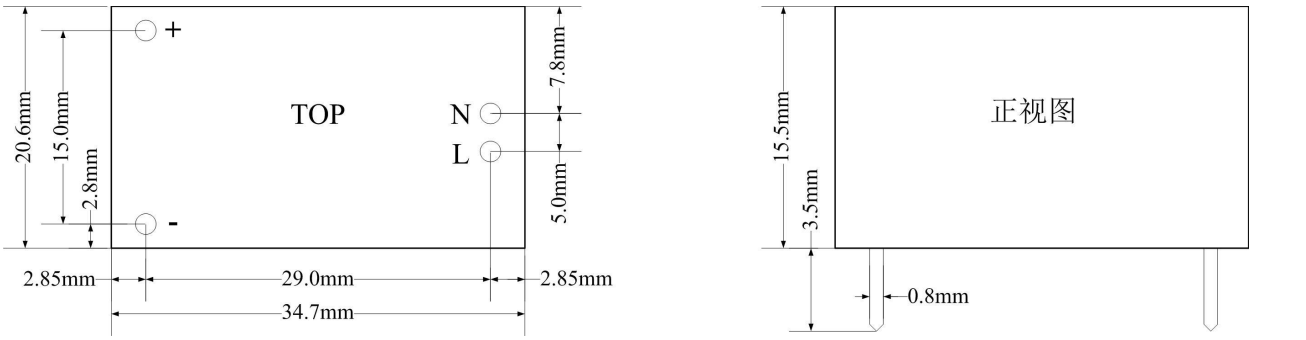
Notes: co1 select High frequency low resistance Electrolytic capacitor

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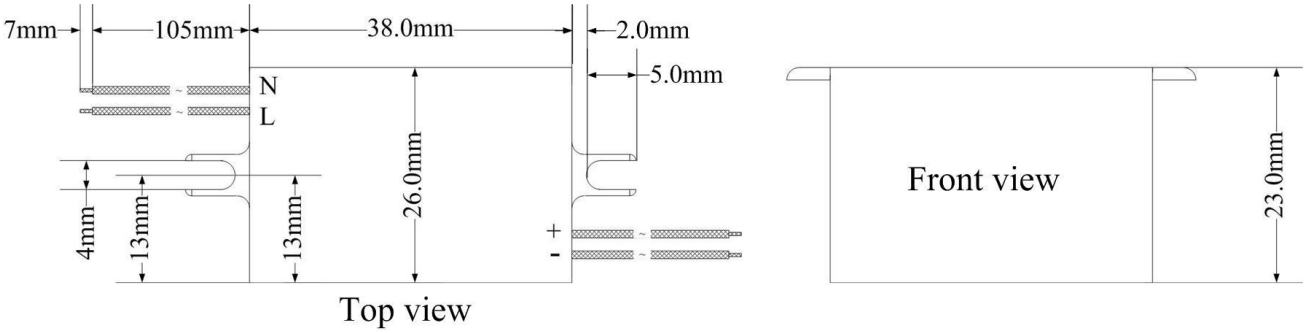
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Product size

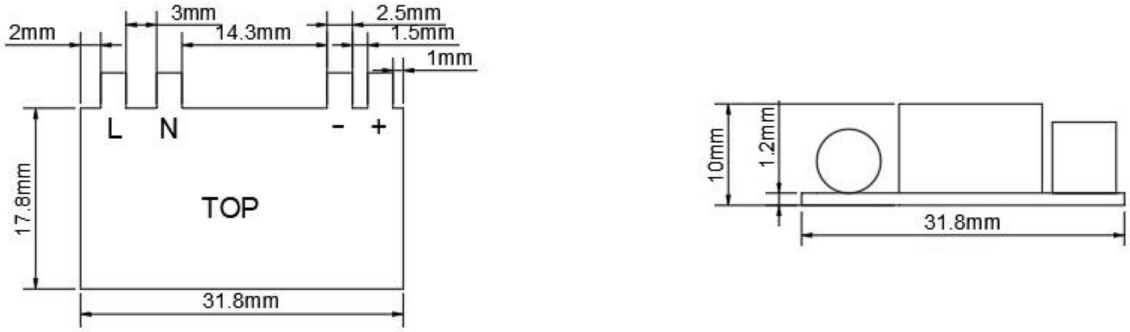
AM11-5W-V



AM11-5W-C



AM11-5W-D



Note:

Pin diameter tolerances:±0.1mm

General tolerances:±0.5mm

PIN	Note
L	AC_L AC input_live wire
N	AC_N AC input_neutral wire
+	+DC DC output positive pole
-	-DC DC output reference ground

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