Product characteristics

- ✧ Package outline：DIP，lead wire；
- ✧ Temperature range：-40℃ to +85℃；
- ✧ Efficiency：86 ~ 87%；
- ✧ Isolation Voltage：3000VAC；
- ✧ Input range：85 ~ 264Vac，120~370Vdc；
- ✧ Output protection：current limit 、short circuit；
- ✧ application area：industry、Instrumentation、track、traffic、Smart Street Lamp、Smart Home、Intelligent switch、Smart Home.



V
DIP



C
Lead wire

Selection Guide

Product model	Input Voltage	Output			Efficiency(%) Min./Typ.	Max capacitive load（μF）
		Power（W）	Voltage（VDC）	current（mA） Max./Min		
AM11-12W05V	85 ~ 264VAC 120~370VDC	12	5	2400	86.2	1500
AM11-12W05C			5	2400	86.2	1500
AM11-12W12V			12	1000	87.3	1000
AM11-12W12C			12	1000	87.3	1000
AM11-12W15V			15	800	87.5	680
AM11-12W15C			15	800	87.5	680
AM11-12W24V			24	500	87	470
AM11-12W24C			24	500	87	470

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage range	AC Input	85	--	264	Vac
	DC Input	119	308	370	Vdc
Input frequency	AC Input	47	--	63	Hz
Input current	220VAC	--	106	/	mA
Start up time		--	800	1500	ms
Inrush Current Typical application circuit	220VAC	--	10	--	A
Input filter Typ		C			
Recommended External Input Fuse		1A/250VAC, slow-blow, required			

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Output Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Output Voltage Accuracy	--	--	--	±3	±5	%
Line Regulation	Full load		--	±1.5	--	%
Load Regulation	10%~100% Load(balanced load)	AM11-12W(V/C)	--	±3	--	%
Ripple & Noise	20MHz bandwidth (peak-to-peak value)	AM11-12W(V/C)	--	--	120	mV
Temperature Coefficient			--	±0.05	--	%/℃
Short Circuit Protection			Continuous, self-recovery			
Over current current	AM11-12W(V/C)		110~150% Io self-recovery			
Min. Load			0	--	--	%

General Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Isolation Voltage	Input - output		3000	--	--	Vac
operating Temperature			-40	25	+55	℃
storage Temperature			-40	25	+85	
storage Humidity			--	--	95	%RH
soldering Temperature	Wave-soldering		260 ± 5℃; time：5-10s			
	Manual welding		360 ± 10℃; tim：3-5s			
Switching Frequency			--	65	72	KHz
MTBF			MIL-HDBK-217F@25℃ > 200,000 h			

Mechanical Specifications

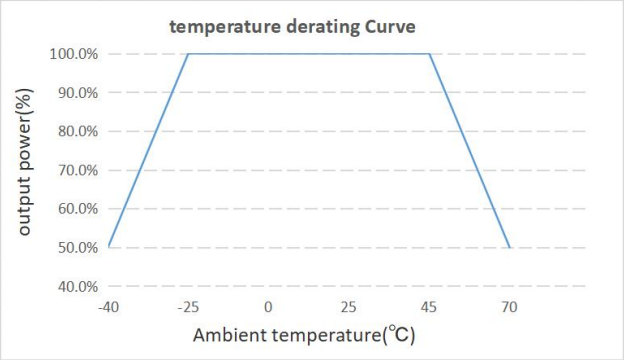
Case Material		flame-retardant and heat-resistant
Size	AM11-12W-V	38.2*25.2*23mm
	AM11-12W-C	38x26x23mm
Weight	AM11-12W-V	30g(Typ.)

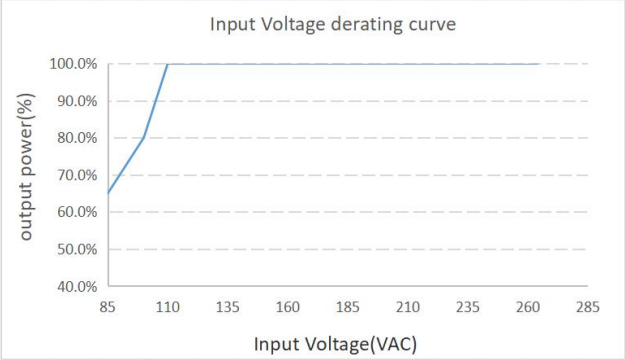
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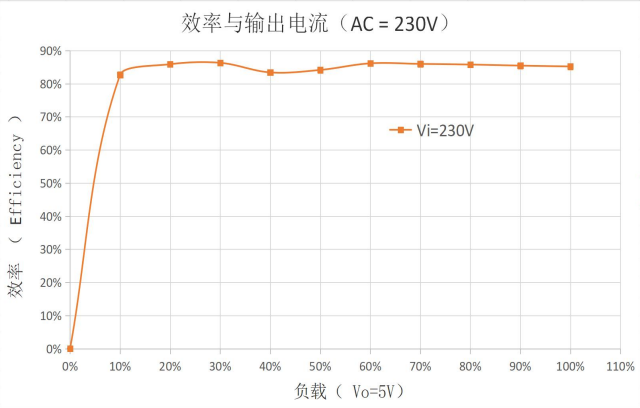
	AM11-12W-C	25g(Typ.)
Cooling method		Free air convection

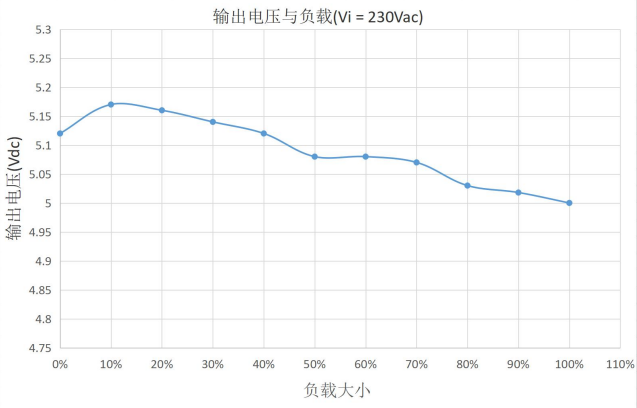
Product Characteristic Curve

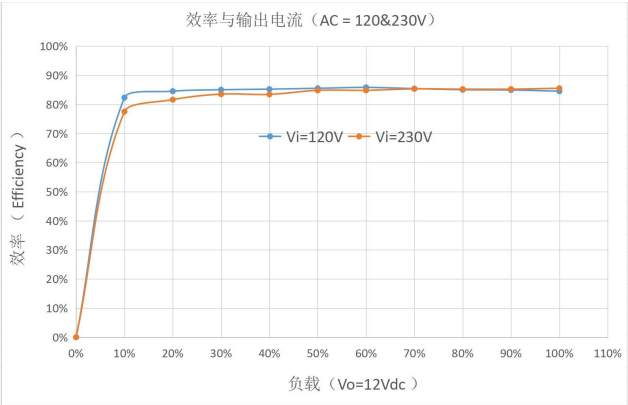


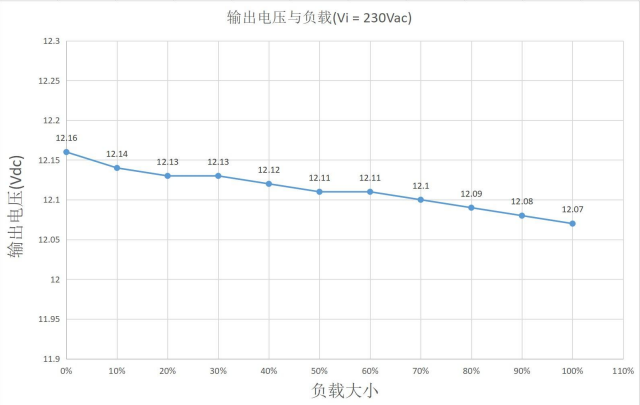


Efficiency vs load







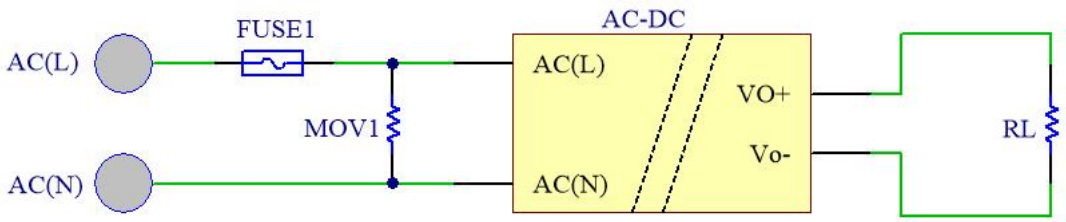


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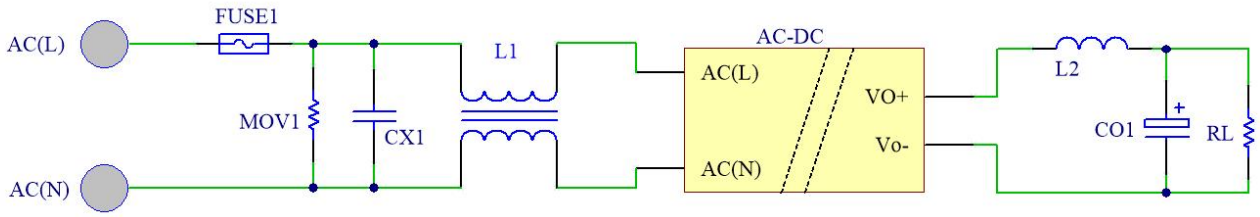
Design Reference

Typical application circuit



FUSE1	MOV1
1A/500VAC Slow-blow, required	10D 431K

EMC compliance recommended circuit



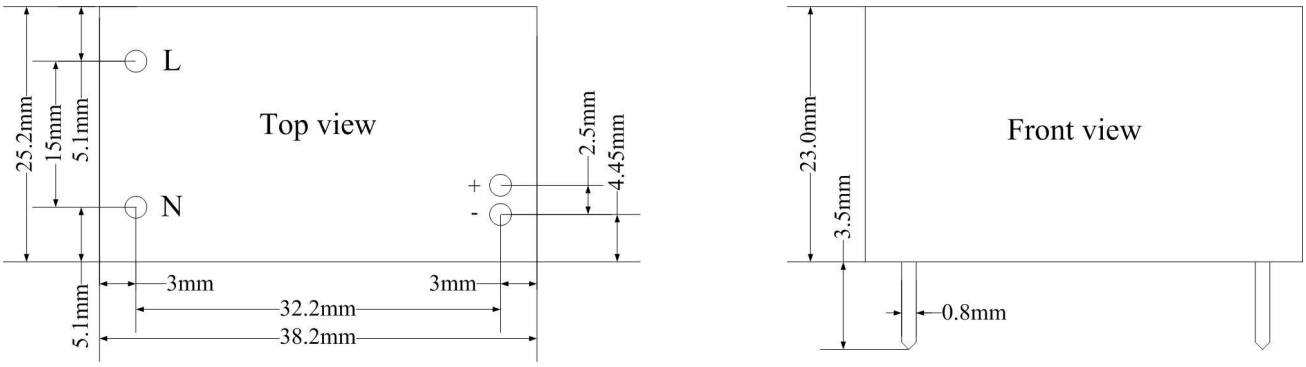
FUSE1	MOV1	CX1	L1	L2	CO1
1A/250VAC Slow-blow, required	10D 431K	0.1uF/250V	UU9.8 - 10mH	0.47uH SLO0420HR47MTT	220uF

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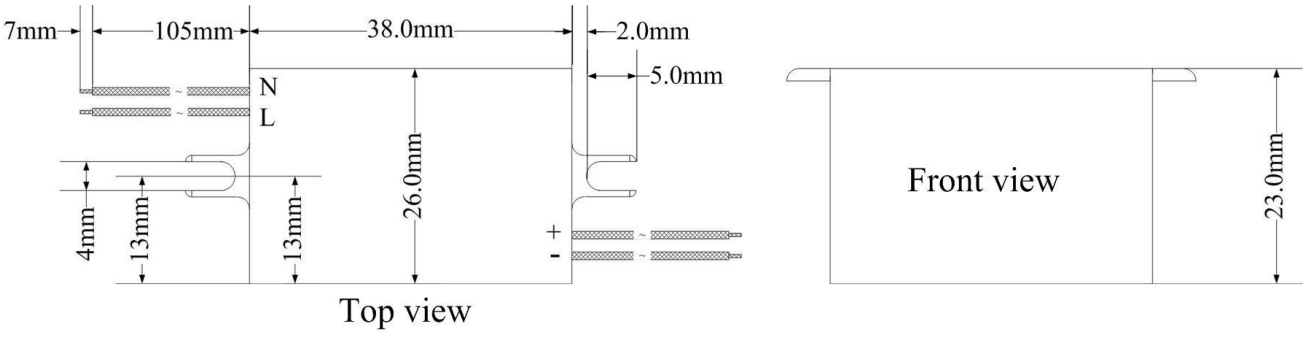
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Dimensions and Recommended Layout

AM11-12W-V



AM11-12W-C



Note:

Pin diameter tolerances:±0.1mm

General tolerances:±0.5mm

PIN	Note
L	AC_L Input Voltage
N	AC_N Input Voltage
+	+DC Output Voltage
-	-DC Output Voltage GND

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