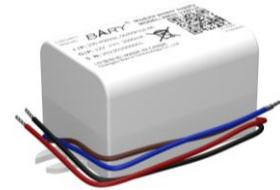


## Product characteristics

- ◇ Package outline : DIP , lead wire ;
- ◇ Temperature range : -40°Cto +85°C ;
- ◇ 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 ( Vac )	Output			Efficiency(%) Min./Typ.	Max capacitive load ( $\mu$ F )
		Power ( W )	Voltage ( VDC )	current ( mA ) Max./Min		
AM11-12W05V	85 ~ 264	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
Input filter Typ		C			
Recommended External Input Fuse		1A/250V, slow-blow, required			

## 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	--	%/°C
Short Circuit Protection			Continuous, self-recovery			
Over current current	AM11-12W(V/C)		110~150% Io self-recovery			
Min. Load			0	--	--	%

## General Specifications

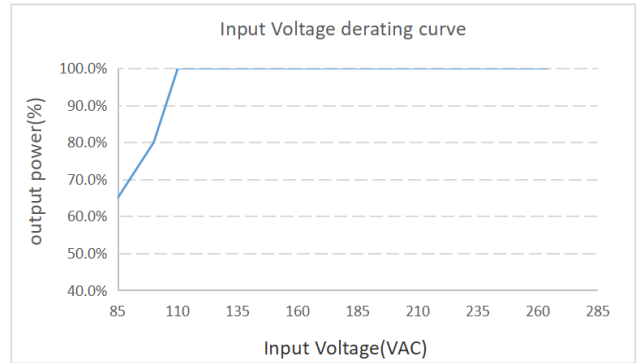
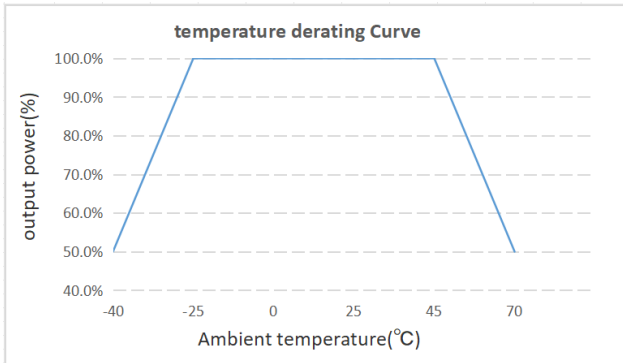
Item	Operating Conditions	Min.	Typ.	Max.	Unit
Isolation Voltage	Input - output	3000	--	--	Vac
operating Temperature		-40	25	+55	°C
storage Temperature		-40	25	+85	
storage Humidity		--	--	95	%RH
soldering Temperature	Wave-soldering	260 ± 5°C; time : 5-10s			
	Manual welding	360 ± 10°C; tim : 3-5s			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

## Mechanical Specifications

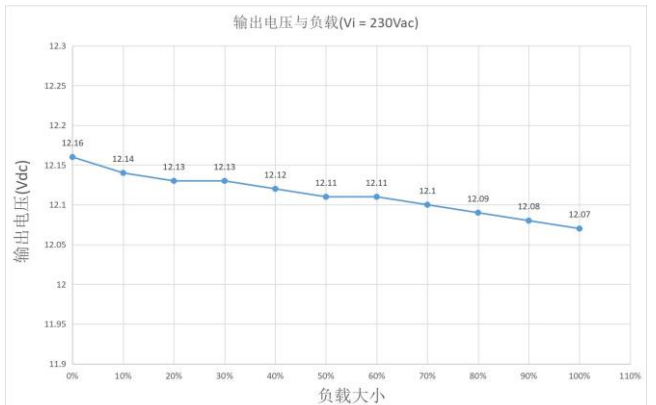
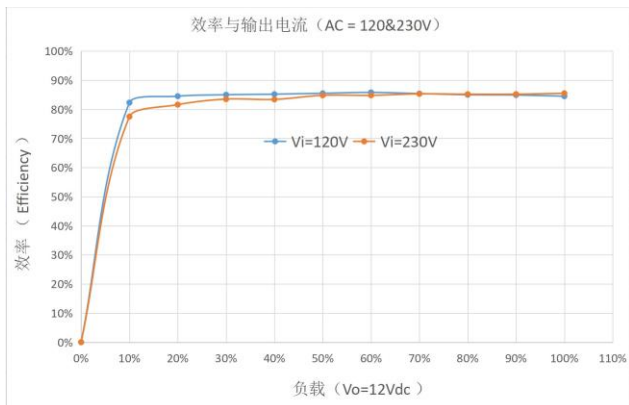
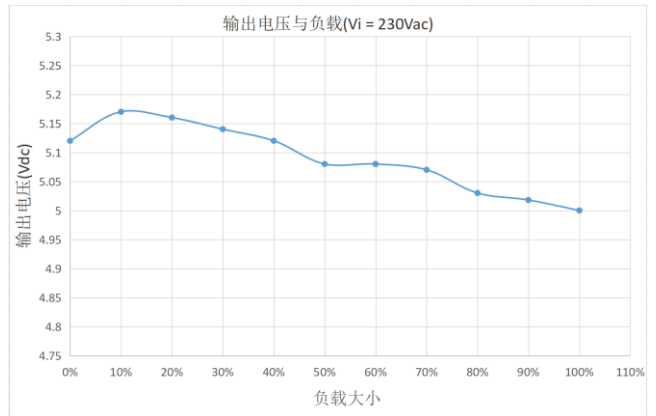
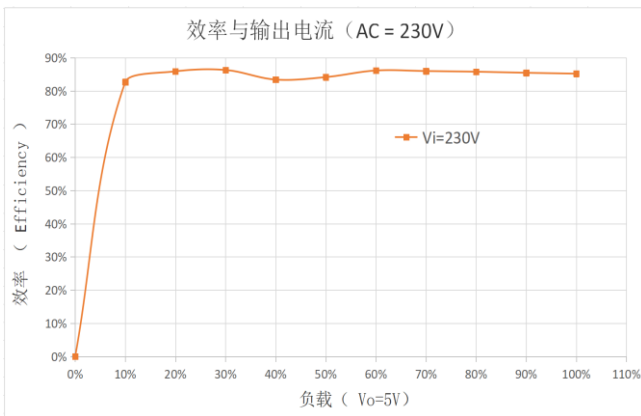
Case Material	flame-retardant and heat-resistant	
Size	AM11-12W-V	38.2*25.2*23mm
	AM11-12W-C	38x28x23mm

Weight	AM11-12W-V	30g(Typ.)
	AM11-12W-C	25g(Typ.)
Cooling method		Free air convection

### Product Characteristic Curve

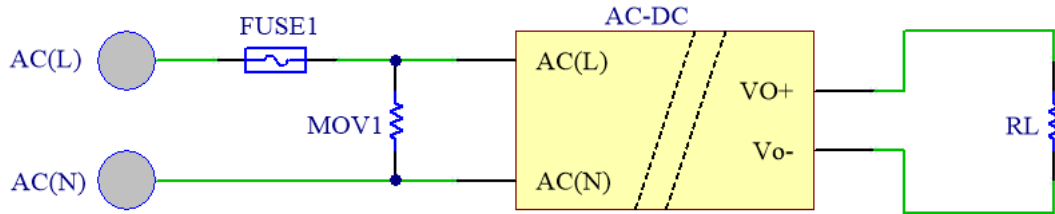


### Efficiency vs load



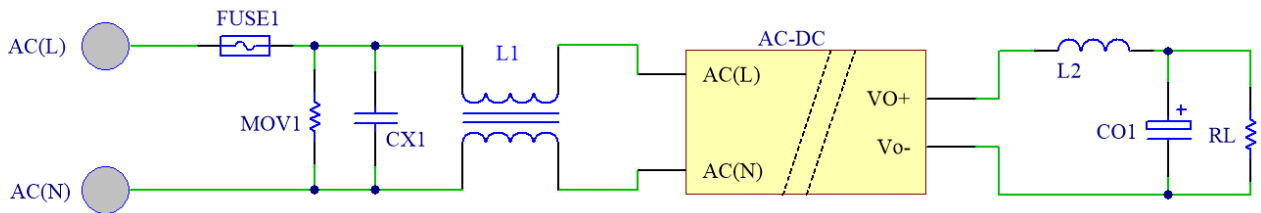
Design Reference

Typical application circuit



FUSE1	MOV1
1A/500V Slow-blow, required	10D 821K

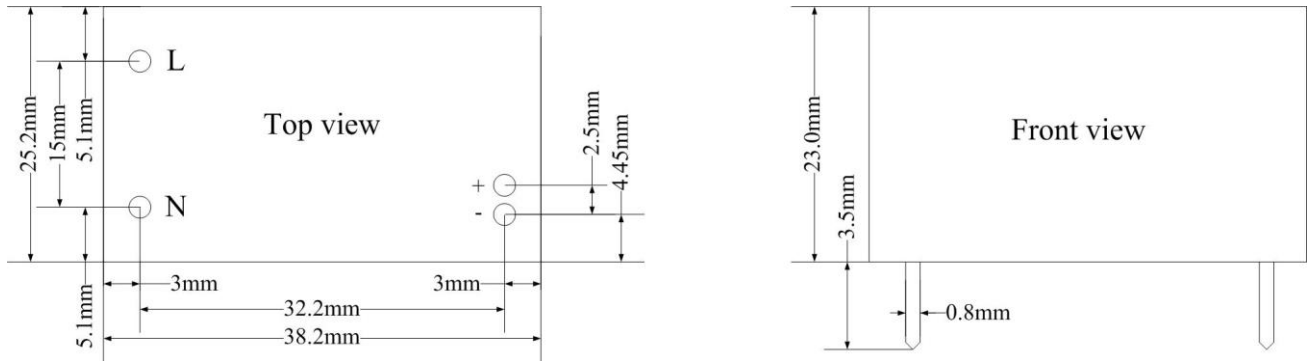
EMC compliance recommended circuit



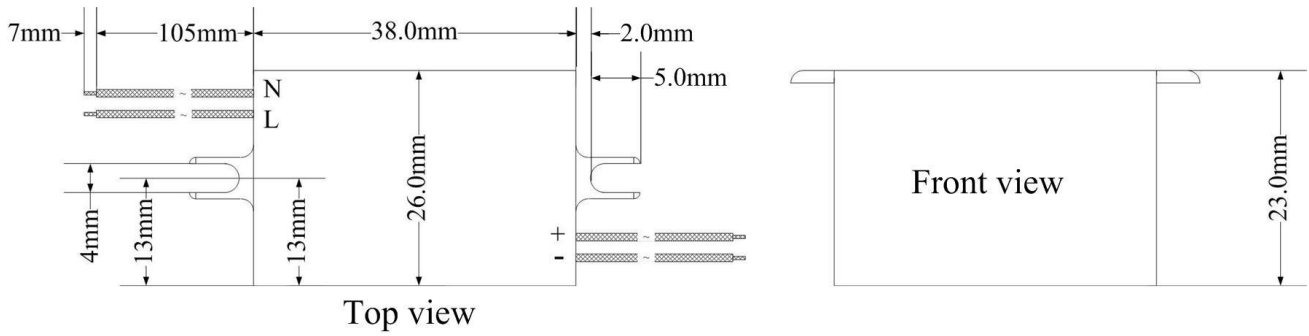
FUSE1	MOV1	CX1	L1	L2	CO1
1A/250V Slow-blow, required	10D 821K	0.1uF/250V	UU9.8 - 10mH	0.47uH SLO0420HR47MTT	220uF

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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