Product characteristics

- ✧ Package type: DIP;
- ✧ Temperature range: -40℃ to +85℃;
- ✧ Conversion efficiency: 90% (max);
- ✧ Isolation withstand voltage: 3000VDC;
- ✧ Input range: 85 ~ 264VAC, 120 ~ 370VDC;
- ✧ Output protection: overcurrent and short circuit protection;
- ✧ Application areas: industry, instrumentation, rail transit, smart street lights, smart switches, smart homes.



V
DIP

File Version	Modify description	release date	Maintainer
V1.0	Initial release	2024-8-23	LJ

Selection Table

Product Model	Input voltage range	Output			efficiency (%) Min./Typ.	Maximum capacitive load (μF)
		Power (W)	Voltage (VDC)	Current (mA) Max./Min		
AM11-20W05V	85~264VAC 120~370VDC	20	5	4000	81	4700
AM11-20W09V			9	2222	82	4700
AM11-24W12V		twenty four	12	2000	86	3300
AM11-24W15V			15	1600	87.5	3300
AM11-24W24V			twenty four	1000	90	2200

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

Input Parameters

project	Operating conditions	Minimum value .	Typical value .	Maximum value .	unit
Input voltage range	AC Input	85	--	264	V ac
	DC input	119	--	370	Vdc
Input frequency	AC Input	47	--	63	Hz
Input Current	AC input (220VAC/50Hz)	--	106	--	mA
Boot time		--	800	1500	ms
Inrush Current	AC Input	--	10	--	A
Input filter type		C			
External fuse		2 A/ 250V AC , slow break, must connect.			

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Output Parameters

project	Operating conditions	Minimum value .	Typical value .	Maximum value .	unit
Output voltage accuracy	AM21-24W-V	--	± 3	± 5	%
Voltage Regulation	Fully loaded	--	± 1.5	--	%
Load Regulation	10%~100% load	--	± 3	--	%
Ripple Noise	20MHz bandwidth , 100% load	--	--	120	mV
Temperature Drift Coefficient	Fully loaded	--	± 0.15	--	%/ ℃
Short circuit protection	AM21-24W-V	Sustainable, self-healing			
Overcurrent protection		110~150% Io self-recovery			
Minimum load		0	--	--	%
Output filter type	C				

General characteristics

project	Operating conditions		Minimum value .	Typical value .	Maximum value .	unit
Insulation withstand voltage	Input - Output		3000	--	--	Vac
Operating temperature	AM21-24W-V		-40	25	+55	℃
Storage temperature			-40	25	+85	℃
Operating humidity			--	--	95	%RH
Soldering temperature	Wave Soldering		260 ± 5℃; time: 5-10s			
	Manual welding		360 ± 10℃; time: 3-5s			
Switching frequency	AM21-24W-V		--	65	72	KHz
Mean time between failures	AM21-24W-V		MIL-HDBK-217F@25°C > 100,000 h			

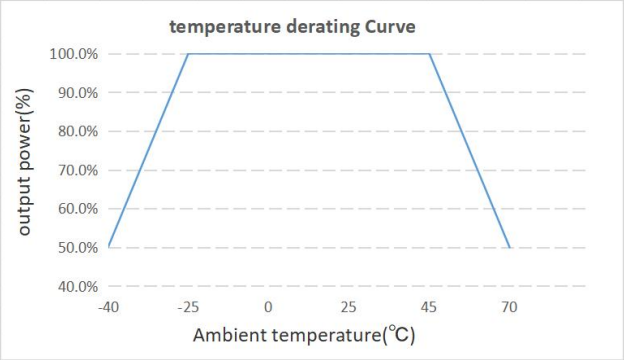
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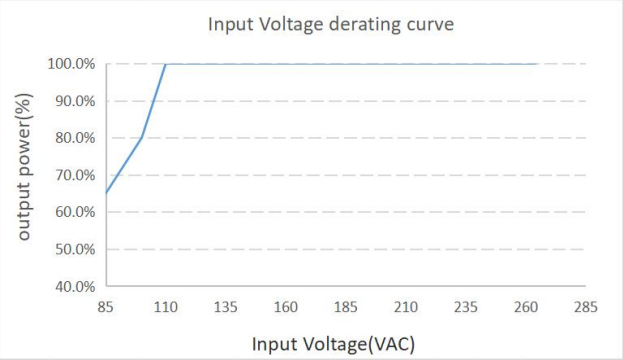
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Mechanical specifications

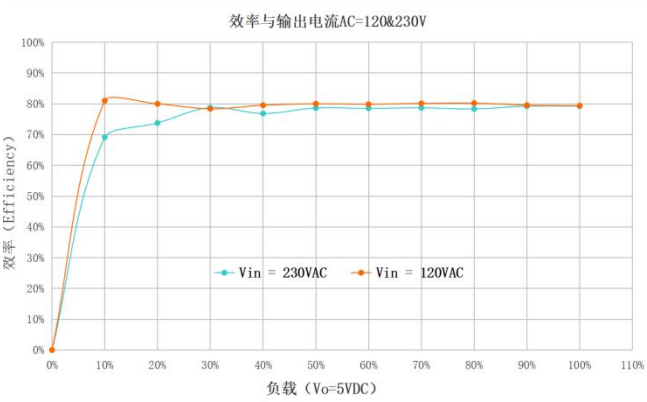
Housing Material		Flame retardant and heat resistant
Dimensions	AM11-24W-V	52.5*35.2*25.6mm
Product Weight		52g (Typ.)
Cooling method		Natural cooling

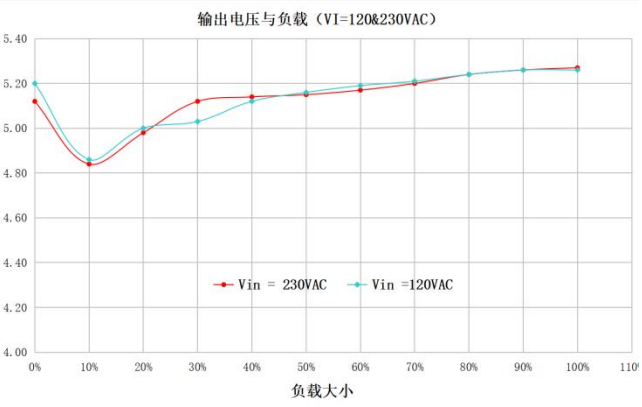
Product characteristic curve





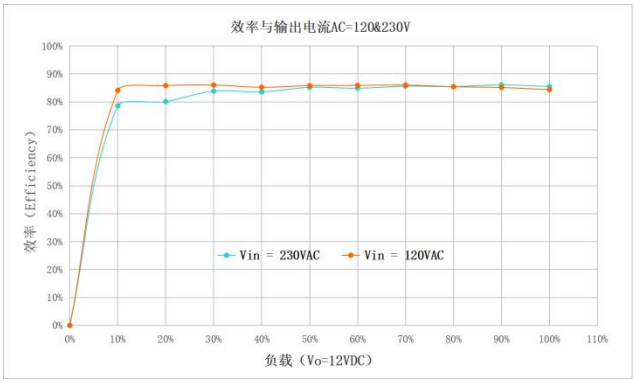
Conversion efficiency and load

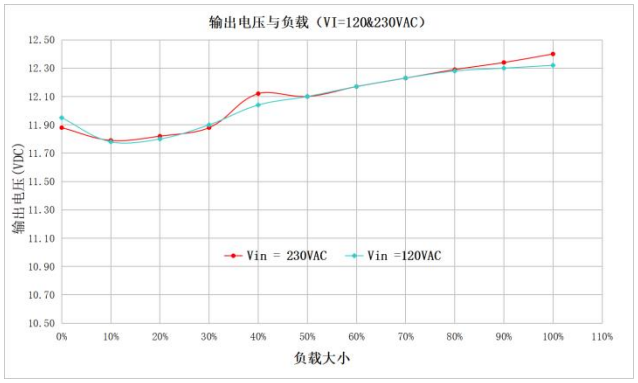


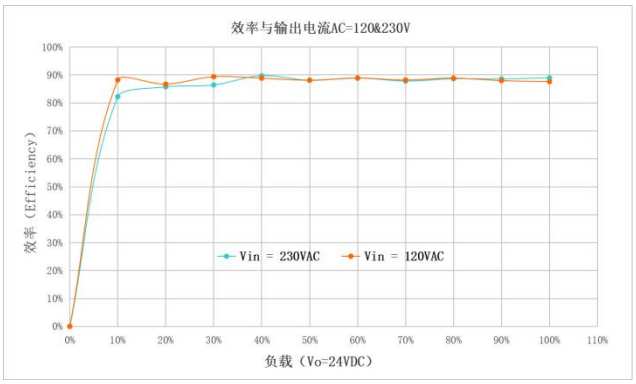


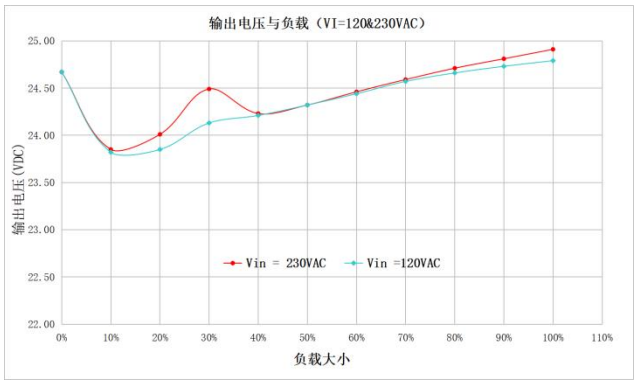
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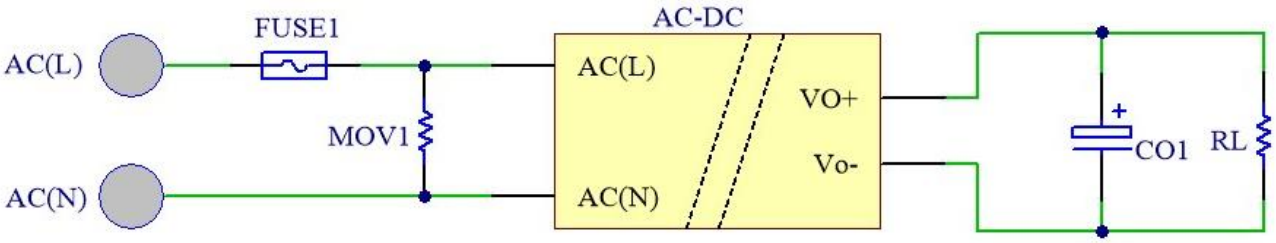






Reference Design

Typical application design



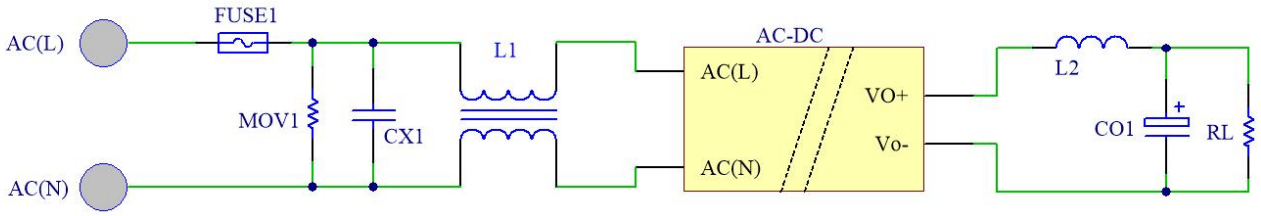
FUSE1	CO1	MOV1
3.15A/250VAC Slow-blow, required	470uF (high frequency low resistance)	10D 431K

Notes : co1 select High frequency low resistance Electrolytic capacitor

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EMC recommended circuit design

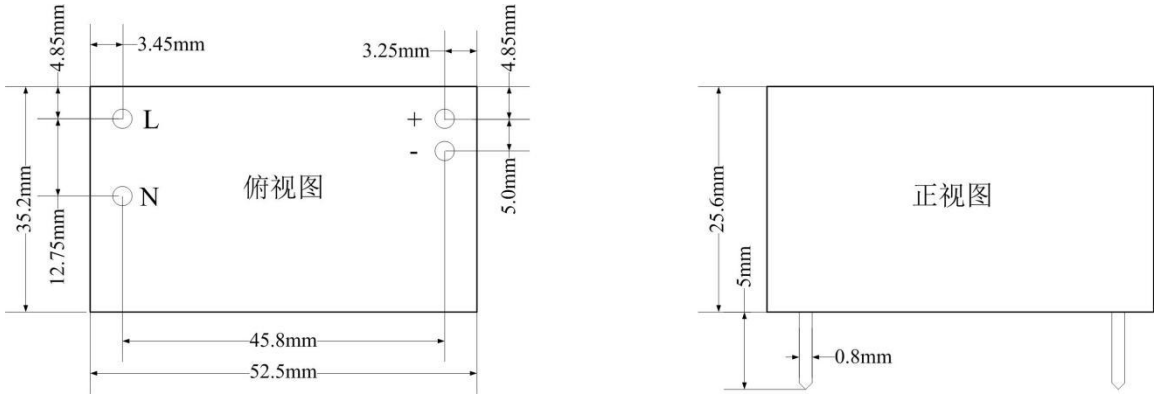


FUSE1	MOV1	CX1	L1	L2	CO1
3.15A/250V slow break, must connect	10D 431K	0.1uF/500V	UU9.8 - 10mH	0.47uH SLO0420HR47MTT	470uF

Notes : co1 select High frequency low resistance Electrolytic capacitor

Product Dimensions

AM11-24W-V



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 line
+	+DC DC output positive pole
-	-DC DC output reference ground

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