AM21-36W-V

36W Low Power AC-DC Step-down Power Supply Module

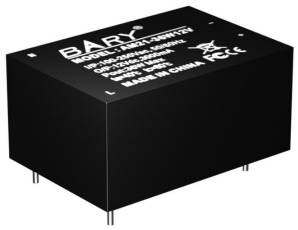


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Product characteristics

- ✧ Package outline：DIP，lead wire；
- ✧ Temperature range：-40℃ to +85℃；
- ✧ Efficiency：85 ~ 88%；
- ✧ Isolation Voltage：4000VDC；
- ✧ Input range：85 ~ 264VAC，120 ~ 370VDC；
- ✧ Output protection：current limit 、short circuit；
- ✧ application area：industry、Instrumentation、RF communication、track、traffic、Smart Street Lamp、Smart Home、Intelligent switch、Smart Home.



Selection Guide

Product model	Input Voltage	Output			Efficiency(%) Min./Typ.	Max capacitive load（μF）
		Power（W）	Voltage（VDC）	current（mA） Max./Min		
AM21-36W12V	85 ~ 264AV 120~370VDC	36	12	3000	85	6800
AM21-36W15V			15	2400	85	6000
AM21-36W24V			24	1500	88	4700

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage range	AC Input	85	--	264	Vac
	DC Input	119	--	370	Vdc
Input frequency	AC Input	47	--	63	Hz
Input current	220VAC	--	334	--	mA
Start up time		--	800	1500	ms
Inrush Current	220VAC	--	30	--	A
Input filter Typ		LC			
Recommended External Input Fuse		5A/250VAC, slow-blow, required			

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Output Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Output Voltage Accuracy	--	--	--	±1.0	±1.5	%
Line Regulation	Full load		--	±0.25	±0.5	%
Load Regulation	10%~100% Load(balanced load)	AM21-36W-V	--	±1.0	±2	%
Ripple & Noise	20MHz bandwidth (peak-to-peak value)	AM21-36W-V	--	--	60	mV
Temperature Coefficient			--	±0.05	--	%/℃
Short Circuit Protection			Continuous, self-recovery			
Over current current	AM21-36W-V		110~150% Io self-recovery			
Min. Load			0	--	--	%

General Specifications

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Isolation Voltage	Input - output		4000	--	--	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			

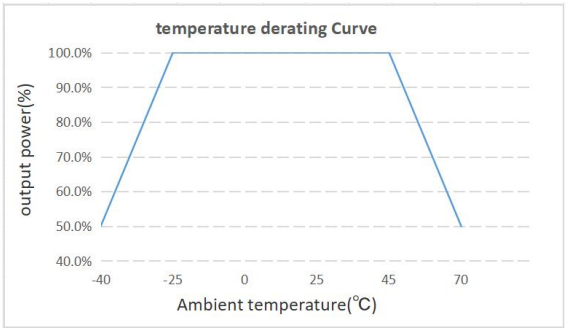
Mechanical Specifications

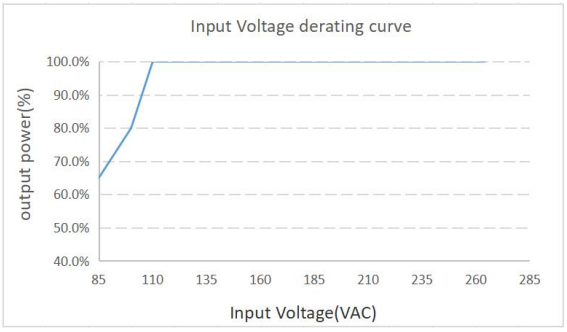
Case Material		flame-retardant and heat-resistant
Size	AM21-36W-V	65*45*31mm
Weight	AM21-36W-V	132g(Typ.)
Cooling method		Free air convection

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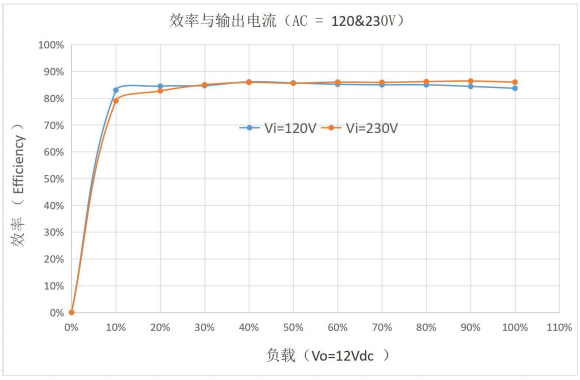
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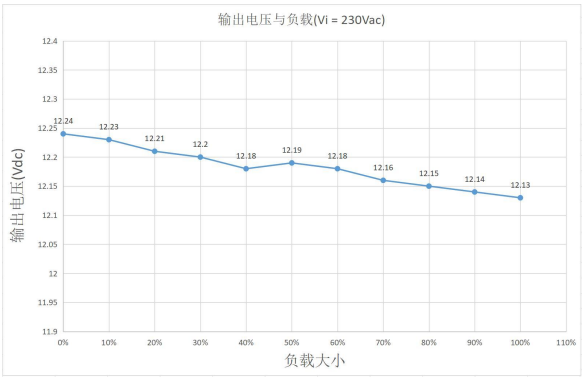
Product Characteristic Curve

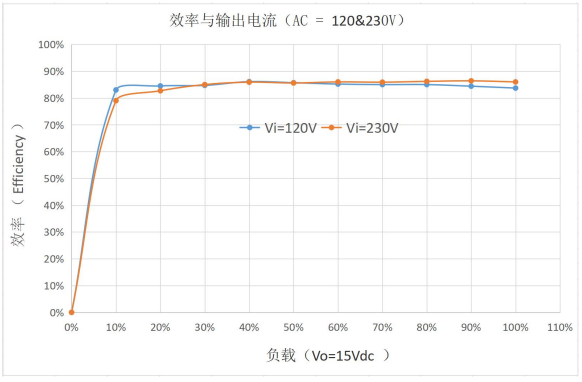


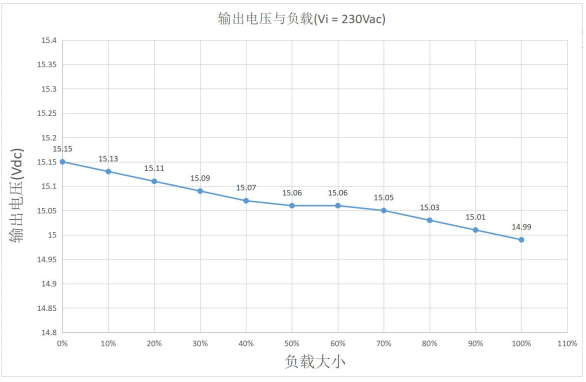


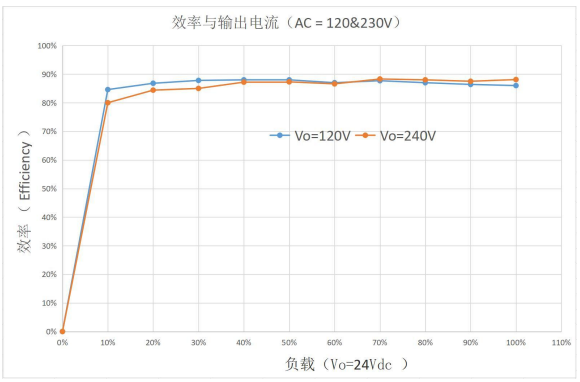
Efficiency vs load

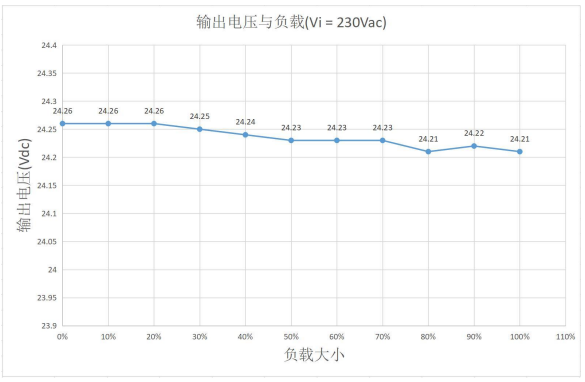










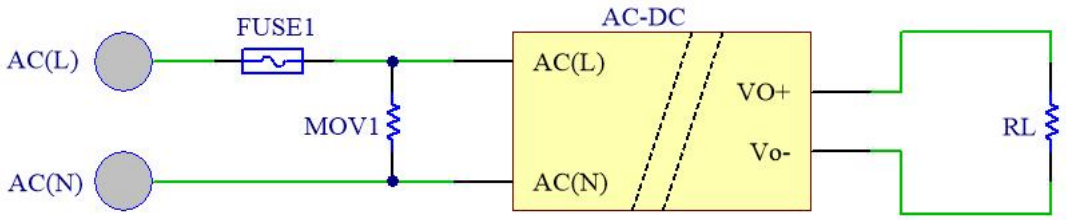


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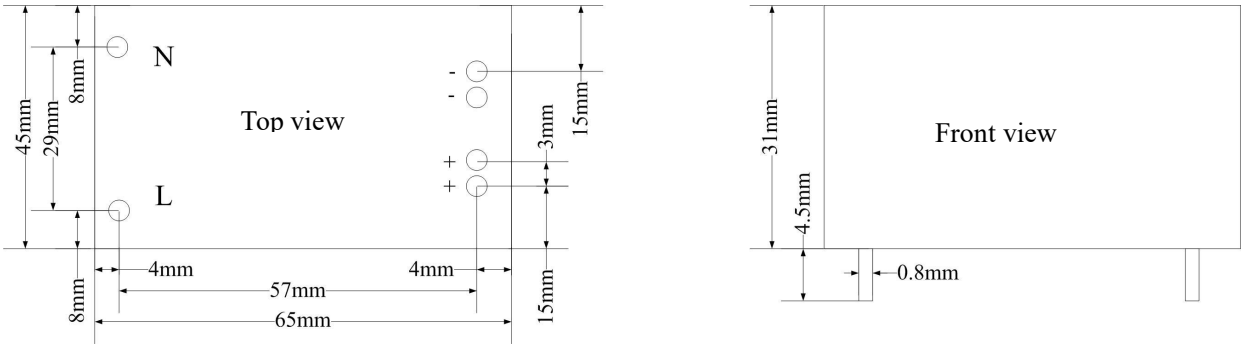
Design Reference

Typical application circuit



FUSE1	MOV1
5A/250V Slow-blow, required	NC

Dimensions and Recommended Layout



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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