Features

- Wide voltage input 85-305VAC/120-430VDC
- DIP
- Operating temperature range: -40°C∼+85°C
- Isolation voltage: 3000/4000VAC 5mA 1Minute
- Internal SMD design
- Metal shell package
- Coolingnatural
- It has good shielding anti-interference performance and electromagnetic compatibility, lightning protection, output overcurrent, short circuit protection, overheat protection, self-recovery and other functions

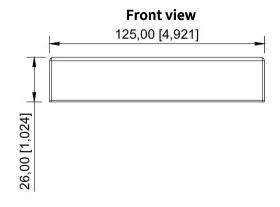
Product Picture

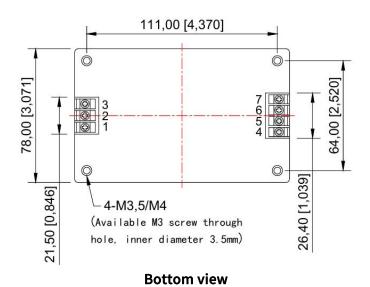


EMC-EN55032 EN55035 LVD-EN62368

Dimensions

AC220S__DZ-100W(GB) Series Dimensions





Pin	Function			
1	AC(L)			
2	AC(N)			
3	FG			
4	TRIM			
5	+XXVDC			
6	0V			
7	NS			

Note:

Unit: mm[inch]

Terminal section tolerance: $\pm 0.1[\pm 0.004]$ Unmarked tolerance: $\pm 0.25[\pm 0.01]$ The device layout is for reference only.





Application

Industrial control and remote DC power supply system, switching system, AC/DC(5V products), railway communication, communication interface converter, cellular telephone, semiconductor laser, display screen, monitoring equipment, petrochemical, portable instrument, medical instrument, automatic control device, burglar alarm, handheld instrument, digital circuit, IC card meter, air conditioning computer controller, LED production Products, digital products, power adapters, etc.

Selection Guide							
Model	Input (V)	Output (V±2%)	Current (mA)	Efficiency (%)	Isolation (VAC)	Weight (g±0.5)	Certification
AC220S12DZ-100W	85-305VAC (120-430VDC)	12	8333	≥90	3000/4000		
AC220S15DZ-100W		15	6667	≥91	3000/4000		
AC220S24DZ-100W		24	4167	≥91	3000/4000		
AC220S48DZ-100W		48	2083	≥92	3000/4000		

Note: The company for customers to customize any input and output module power supply, if you have special needs, please call our company, unless otherwise specified, input =Vi, the characteristics of the module power supply should meet the requirements of Table 1, and applicable to the full temperature range (-40°C≤Tc≤85°C)

Electrical Specifications						
Characteristic	Symbol	ConditionsVi ,-40°C≤Tc≤85 (Unless otherwise specified)	· Min		Unit	
Output Voltage	Vo	Full load	Vo-2%	Vo+2%	V	
Output Current	Iomax	_	_	P(Power)/ U(Output voltage)	Α	
Output Ripple Voltage	Vp-p	Full load,Vi,BW=20MHz,Normal temperature	100	400	mV	
Output Noise Voltage	Vp-p	Full load, Vi, BW=20MHz, Normal temperature	120	450	mV	
Voltage Regulation	Sv	Vimin、Vi、Vimax,Full load	_	<0.5%	%	
Load Adjustment	Si	Vi, lo=(10%~100%)lomax	_	<0.5%	%	
Efficiency	η	Vi, Full load, Normal temperature	90	_	%	
Insulation resistance	Rl	Input/output, test voltage: 500VDC	100	_	МΩ	

General Specifications				
EMC Specifications	Magnetic Field Sensitivity Test	GB6833.2-87		
	Electrostatic discharge Sensitivity test	GB6833.3-87		
	Radiation Sensitivity Test	GB6833.5-87		
	Conduction Sensitivity Test	GB6833.6-87		
Temperature Excursion	<0.03%/°C			
Storage Temperature	-40°C~125°C			
Input Frequency	47Hz~63Hz			
Humidity	20%~95%RH			
Leakage Current	5mA(max)			
MTBF	>500000H			

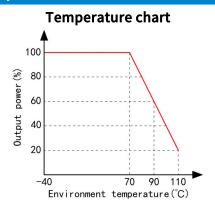




Mechanical Specifications

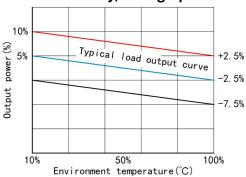
Package Size 125.00 x 78.00 x 26.00 mm

Typical Specifications Curves

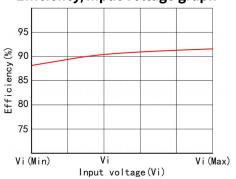


Typical load output curve +2.5% Typical load output curve -2.5% 10% Environment temperature (°C)



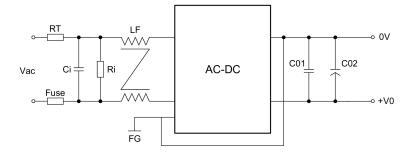


Efficiency/Input voltage graph



Typical Application

Design Reference



Recommendation test

Filter: In some circuits that are sensitive to noise and ripple, the AC/DC input and output terminals can be connected with external filter capacitors to reduce the impact of ripple on the system, but the value of the filter capacitor should be appropriate, if the capacitor is too large, it is likely to cause startup problems, for each output, under the condition of ensuring safe and reliable operation, the maximum capacitance of the filter capacitor can be referred to the external capacitance table. In order to obtain very low ripple, an "LC" filter network can be connected to the input and output end of the AC/DC converter, so that the filtering effect





will be better, and it should be noted that the size of the inductance value and the frequency of the "LC" filter network should be staggered from the frequency of the AC/DC module power supply to avoid mutual interference. For each output, under safe and reliable working conditions, the recommended capacitive load value is shown in Table 1.

Input voltage (Vin+)	C01	C02	RT	Ci(UF)	Ri(KR)	LF(mH)
85-305V	104M/50V	1000uF/16V	8D-7	0.1/275V	560	8-10

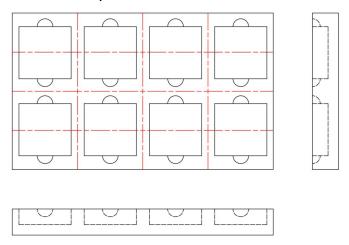
Recommended capacitive load values Table (Table 1)

Note: Please note that the main grounding of the output and the grounding of the load are connected to the ground, so that even if the product has problems, it will not cause harm to the human body. The ground requirements for the auxiliary roads are isolated and can be grounded without grounding.

Notice

Package

This series of modules are packed in shockproof and anti-static foam.



Transport

The package containing the module is allowed to be transported by any means of transport, which should avoid direct rain and snow and mechanical damage.

Store

The module should be stored in a warehouse where the ambient temperature is -40 °C ~ 125 °C, the relative humidity is 20%~95%, and the surrounding environment is free from acidic, alkaline and other harmful gases.

Note: The above are the performance indicators of the product series listed in this manual. Some indicators of non-standard products may exceed the above requirements, so if there is any inconsistency between the manual and the product specification documents, please refer to the specification documents. If you have special needs, please contact us directly.

