HenLv

Features

- Wide input 85-305VAC/120-430VDC
- DIP package
- Operating temperature: -40°C~+85°C
- Isolation 3000/4000VAC 5mA 1Minute
- International standard pin (different pin positions and related parameters can be customized according to customer requirements)
- High flame retardant plastic shell packaging
- Cooling natural
- It has good shielding anti-interference performance and electromagnetic compatibility, lightning protection, output over current, short circuit protection, overheat protection, self-recovery and other functions

Product Picture



Patent protection



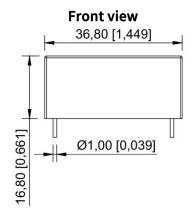


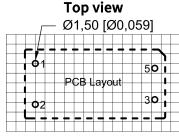


EMC-EN55032 EN55035 LVD-EN62368

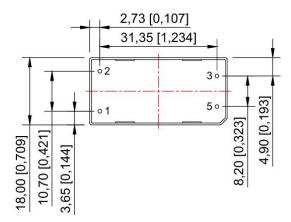
Dimensions

AC220S__DC-3W Series Dimensions





Note: The grid distance is 2.54*2.54mm



Pin mode			
Pin	Function		
1	AC(N)		
2	AC(L)		
3	+XXVDC		
5	0V		

Bottom view

Note:

Unit: mm[inch] Pin section tolerance: $\pm 0.1[\pm 0.004]$

The device layout is for reference only.

Unmarked tolerance: $\pm 0.25[\pm 0.01]$





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	Vin (V)	Vout (V±2%)	Full Load Output Current (mA)	Efficiency (%)	Isolation (VAC)	Weight (g±0.5)	Certification
AC220S05DC-3W	85-305VAC (120-430VDC)	5	600	≥75	3000/4000		
AC220S09DC-3W		9	333	≥77	3000/4000		
AC220S12DC-3W		12	250	≥77	3000/4000		C€
AC220S15DC-3W		15	200	≥78	3000/4000		
AC220S24DC-3W		24	125	≥78	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 \leq Tc \leq 85°C)

Electrical Characteristics						
Characteristic	Symbol	Conditions Vi ,-40°C≤Tc≤85 (Unless otherwise specified)	Min Max		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	200	mV	
Output Noise Voltage	Vp-p	Full Load, Vi, BW=20MHz, Normal Temperature	120	250	mV	
Voltage Regulation	Sv	Vimin、Vi、Vimax,Full Load	_	<0.5%	%	
Load Regulation	Si	Vi, lo=(10%~100%)lomax	_	<0.5%	%	
Efficiency	η	Vi,Full Load,Normal Temperature	75	_	%	
Insulation Resistance	Rl	Input/output, test voltage: 500VDC	100	_	МΩ	

General Characteristics					
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				
MTBF	>500000 H				

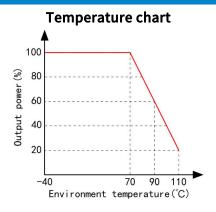




Mechanical Specifications

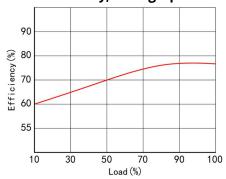
Size 36.80 x 18.00 x 16.80 mm

Typical Characteristic Curves

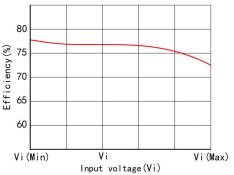


Error envelope graph 10% Typical load output curve -2.5% -7.5% Environment temperature (°C)

Efficiency/Load graph

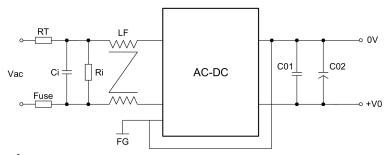


Efficiency/Input voltage graph



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

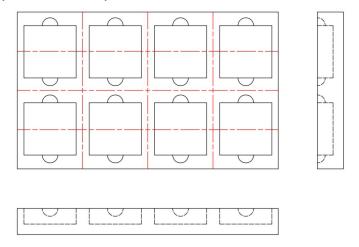
Recommended capacitive load values Table (Table 1)

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.

Storage

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.

