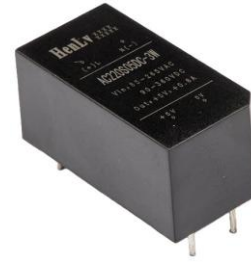


Features

- Wide input 85-305VAC/120-430VDC
- DIP
- Operating temperature: -40°C~+85°C
- Isolation 2500VAC 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



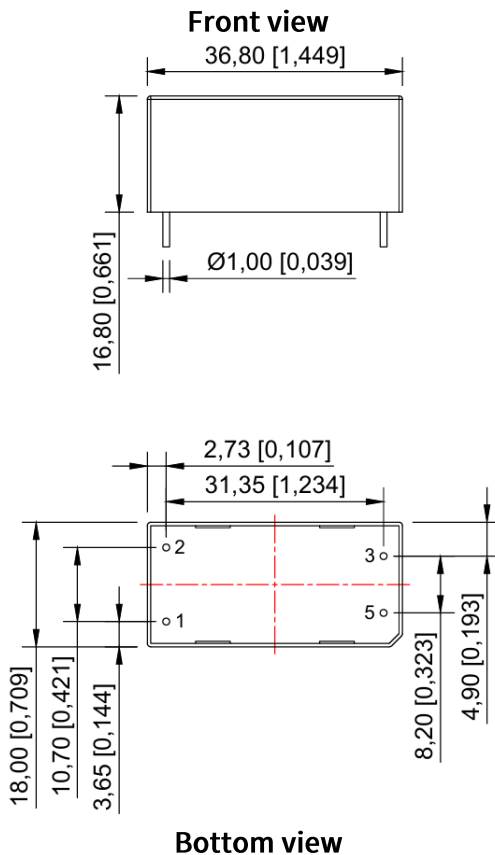
Patent protection



EMC-EN55032
EN55035
LVD-EN62368

Dimensions

AC220S__DC-3WH0 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

Note:

Unit: mm[inch]

Pin 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, 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)
AC220S05DC-3WH0	85-305VAC (120-430VDC)	5	600	≥75	2500
AC220S09DC-3WH0		9	333	≥77	2500
AC220S12DC-3WH0		12	250	≥77	2500
AC220S15DC-3WH0		15	200	≥78	2500
AC220S24DC-3WH0		24	125	≥78	2500

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 Characteristics

Characteristic	Symbol	Conditions Vi , -40°C≤Tc≤85°C (Unless otherwise specified)	Min	Max	Unit
Output Voltage	Vo	Full Load	Vo-2%	Vo+2%	V
Output Current	Iomax	—	—	P(Power)/U(Output voltage)	A
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, Io=(10%~100%)Iomax	—	<0.5	%
Efficiency	η	Vi, Full Load, Normal Temperature	75	—	%
Insulation Resistance	RI	Input/output, test voltage: 500VDC	100	—	MΩ

General Characteristics

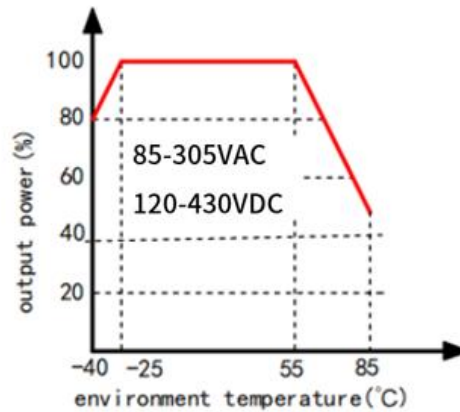
EMC Specifications	Magnetic Field Sensitivity Test	GB6833.2-87
	Electrostatic Discharge Sensitivity Test	GB6833.3-87
	Radiation Sensitivity Test	GB6833.5-87
	Conduction Sensitivity Test	GB6833.6-87
Temperature Excursion	<0.03%/°C	
Storage Temperature	-40°C~105°C	
Input Frequency	47Hz~63Hz	
Humidity	20%~95%RH	
Leakage Current	5mA	
MTBF	>500000 H	

Mechanical Specifications

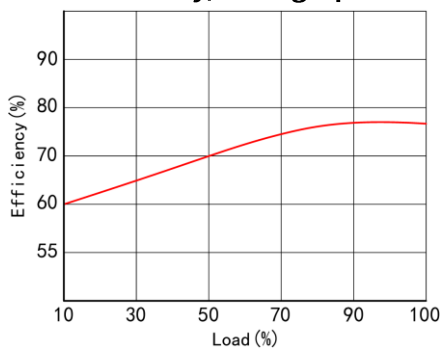
Size	36.80 x 18.00 x 16.80 mm
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Typical Characteristic Curves

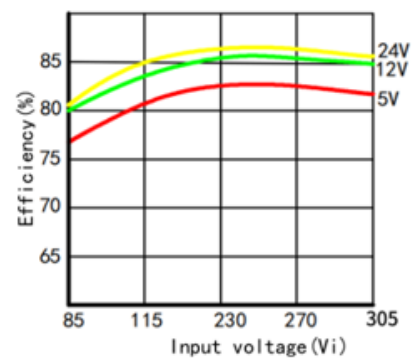
Temperature chart



Efficiency/Load graph

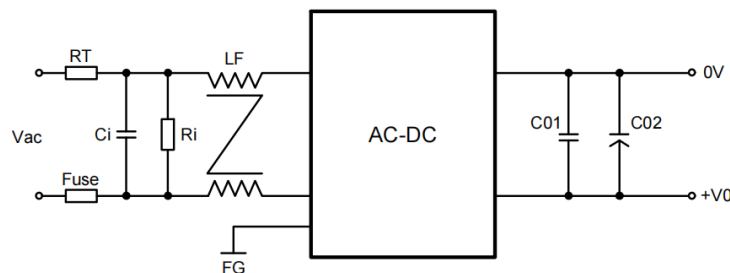


Efficiency/Input voltage graph



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	8D-7	0.1/310V	560	8-10

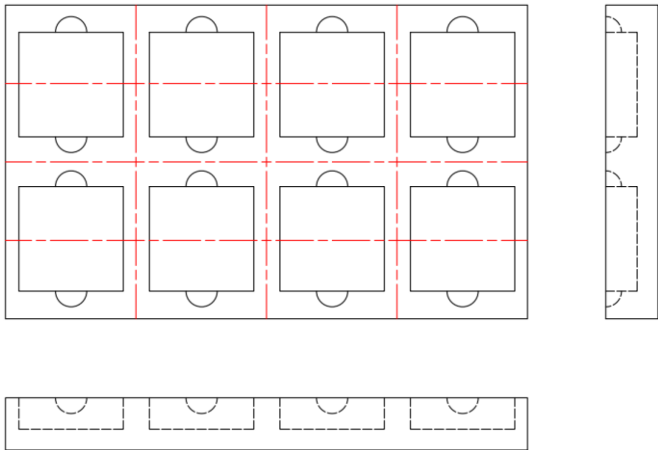
Recommended capacitive load values Table (Table 1)

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.