HenLv

Features

- Fixed voltage input, isolation of unregulated output
- High power density
- Working temperature: -40°C~+85°C
- Isolation 3000VDC 0.5mA 1Minute
- SIP Package
- High flame retardant plastic shell
- 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



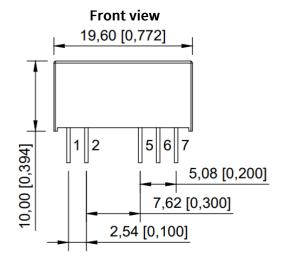
Patent protection

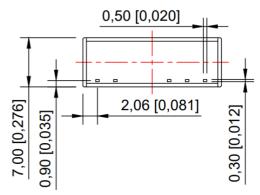
EMC-EN55032 EN55035 LVD-EN62368



Dimensions

S_HD_-2WH2 Series Dimensions



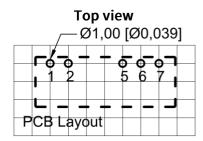


Bottom view

Note:

Size 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.



Note: The grid distance is 2.54*2.54mm

Pin mode			
Pin	Dual		
1	Vin		
2	GND		
5	-XXVDC		
6	СОМ		
7	+XXVDC		



DC-DC Converter

S_HD_-2WH2 Series



Application

Communication interface converter (RS232/485) Cellular phone, semiconductor laser, operational amplifier power supply, portable instrument automatic control device, etc.

Selection Guide					
Model	Vin (V±5%)	Vout (Vo±4%)	Current (mA)	Efficiency(%)	Isolation(VDC)
S_HD05-2WH2	5(4.75-5.25)	±5	±200	≥76	3000
S_HD12-2WH2	12(11.4-12.6)	±12	±84	≥74	3000
S_HD15-2WH2	15(14.25-15.75)	±15	±67	≥72	3000
S_HD24-2WH2	24(22.8-25.2)	±24	±42	≥74	3000

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 (Unless otherwise specified)	Min	Max	Unit
Output Voltage	Vo	Full load	Vo-4%	Vo+4%	٧
Output Current	Iomax	_	_	P(Power)/U(Output voltage)	Α
Output Ripple Voltage	Vp-p	Full load, Vi, BW=20MHz, Normal temperature	60	100	m۷
Output Noise Voltage	Vp-p	Full load, Vi, BW=20MHz, Normal temperature	80	120	mV
Voltage Regulation	Sv	Vimin、Vi、Vimax,Full load	_	≤±2%	%
Load Adjustment Rate	Si	Vi, lo=(10%~100%)lomax	_	≤±2%	%
Efficiency	η	Vi, Full load, Normal temperature	72	_	%
Insulation Resistance	Rl	Input-output, insulation voltage 500VDC	1000	_	МΩ

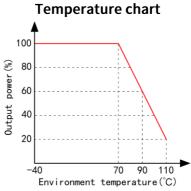
General Specifications				
EMC Specifications	Magnetic field sensitivity test	GB-4943		
	Electrostatic discharge sensitivity test	GB-4943		
	Radiation sensitivity test	GB-4943		
	Conduction sensitivity test	GB-4943		
Temperature drift	≤±0.03%/°C			
Storage Temperature	-40°C~125°C			
Input Frequency	80KHz~150KHz			
Humidity	10%~90%RH			
Leakage Current	_			
MTBF	>500000 H			

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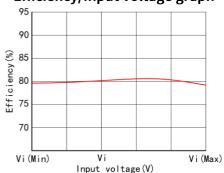
Size 19.60*7.00*10.00 mm

Typical Characteristic Curves

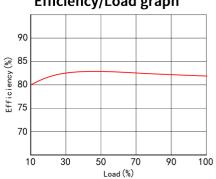




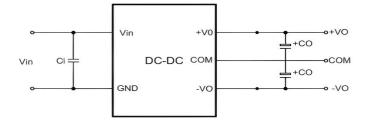
Efficiency/Input voltage graph



Efficiency/Load graph



Typical Application



Recommendation Test

Filter: In some circuits that are sensitive to noise and ripple, an external filter capacitor can be connected to the DC/DC input and output terminals 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 DC/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 DC/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+)	Input capacitance(Cin)	Output voltage(Vout)	Output capacitance(Cout)
5V	4.7uF/25V	5V	4.7uF/25V
12V	2.2uF/25V	12V	2.2uF/25V
24V	1uF/50v	24V	1uF/50v



DC-DC Converter S_HD_-2WH2 Series



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.

Notes							
Package							
This series	This series module is packaged by packaging tube.						
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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 degrees \sim 125 degrees, the relative humidity is 20% \sim 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.

