

**HNDW2-5W DC-DC Converters**

WAYJUN HNDW2-5W series are a thin, wide input, isolated DC-DC converters. Input Range:4.5-9.0,9-18V,18-36V, 36-72VDC.

There are single output and dual output. High regulation accuracy, high efficiency, high reliability, low ripple and noise make it suitable for sub-distribution board power supply system. They are widely used in industrial computer, automatic control, measuring instruments, and a variety of other anti-jamming power occasions

All specifications tested typically @ 25°C, humidity<75%, nominal input and rated output unless otherwise noted.

**Technical Specifications:**

<b>Output Characteristics</b>		
<b>Item</b>	<b>Specifications</b>	<b>Testing condition</b>
Output Accuracy	Main circuit:1.0%max Vice-circuit:1.5%max	Load Range:0%~100%
Voltage Regulation	Main circuit:0.2%max Vice-circuit:0.5%max	Full Load
Load Regulation	Main circuit:0.5%max Vice-circuit:1.0%max	Load Range :0%~100%
Over-current protection point	110%	
Ripple and Noise	$V_o \leq 5V, V_{p-pmax} \leq 50mV$ $V_o \geq 48V, V_{p-pmax} \leq 200mV$ Other output, $V_{p-pmax} \leq 100mV_{p-p}$	20MHz Bandwidth
Dynamic Respond Speed	$\leq 150us$	25%~full load
Start-up Time	500ms	
<b>Input Characteristics</b>		
Input voltage range	(5VDC) 4.5—9.0VDC	
	(12VDC) 9.0—18VDC	
	(24VDC) 18—36VDC	
	(48VDC) 36—72VDC	
	(110VDC) 85-125VDC	
Line Regulation	0.5%	Low~High
<b>General Characteristics</b>		
Switching Frequency	400KHZ	Type.
Conversion Efficiency	Refer to section product list	
Protection Features	Over current protection	
Isolation Voltage	1000VDC	Input/output
MTBF (Hrs)	1000000	
Temperature Coefficient	0.02%/°C	
Case material	Non-conductive black plastic	
Potting material	Epoxy Resin UL94-V0	
<b>Environmental characteristics</b>		
Operating temperature range	-25°C~+60°C	
Storage temperature range	-45°C~+105°C	
Humidity	10%~90%	
Cooling	Free Air Convection	

## Section Products List:

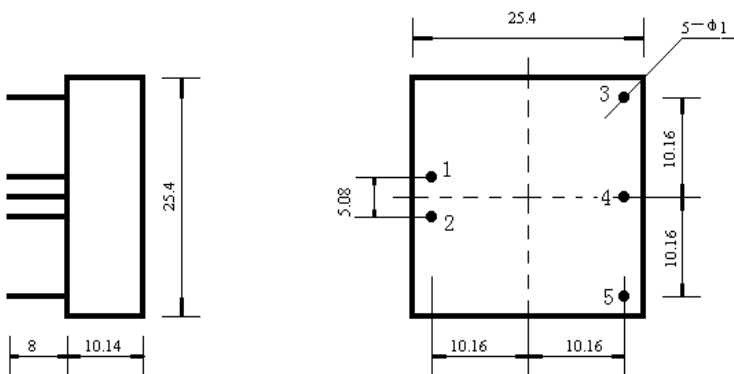
Input Voltage (V)		Output Voltage (V)	Output Current (mA)	Eff. (%)	Part No.	Output
Type.	Range					
5	4.5~9.0	+5.0	+400	69	HNDW2-5S05	Single
5	4.5~9.0	±12.0	±125	68	HNDW3-5D12	Dual
5	4.5~9.0	±15.0	±100	68	HNDW3-5D15	Dual
12	9.0~18	+5.0	+600	74	HNDW3-12S05	Single
12	9.0~18	±5.0	±400	70	HNDW4-12D05	Dual
12	9.0~18	±12.0	±166	79	HNDW4-12D12	Dual
24	18~36	+5.0	+800	75	HNDW4-24S05	Single
24	18~36	+12.0V	+420	83	HNDW5-24S12	Single
24	18~36	+15.0V	+330	83	HNDW5-24S15	Single
24	18~36	±5.0V	±400	78	HNDW4-24D05	Dual
24	18~36	±12.0	±210	83	HNDW5-24D12	Dual
24	18~36	±15.0	±166	83	HNDW5-24D15	Dual
48	36~72	+5.0	+800	70	HNDW4-48S05	Single
48	36~72	+12.0	+420	82	HNDW5-48S12	Single
48	36~72	±5.0	±500	78	HNDW5-48D05	Dual
48	36~72	±12.0	±210	83	HNDW5-48D12	Dual
48	36~72	±15.0	±165	83	HNDW5-48D15	Dual

Note: If need other input and output, please contact us.

**Note: there are four different dimension and footprint (A/B/C/D type),when you order, please specified.**

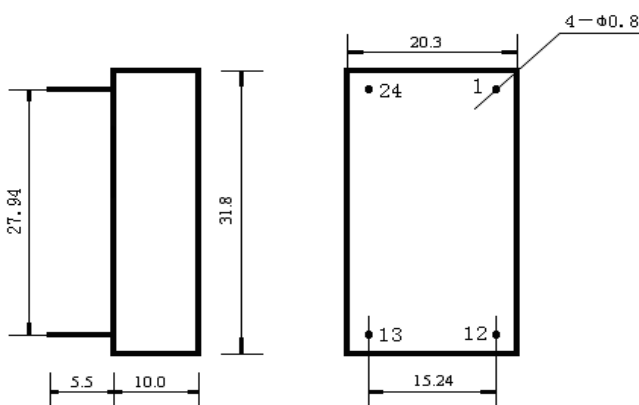
**Example: your choose HNDW4-24S05,and you need A Type, so your part No. is HNDW4-24S05-A.**

A Type (size:25.4x25.4x10.14mm)



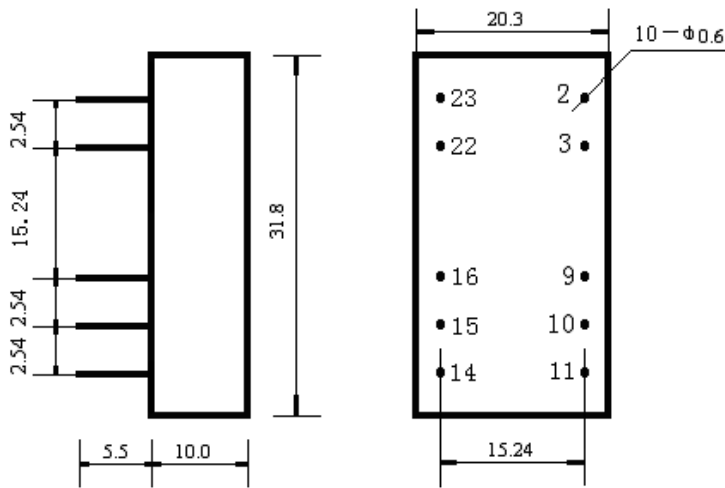
Pin Function		
PIN	Dual Output	Single Output
1	+INPUT	+INPUT
2	-INPUT	-INPUT
3	+OUTPUT	+OUTPUT
4	COMMON	NC
5	-OUTPUT	-OUTPUT

B Type (size:31.8x20.3x10.0mm) 4PIN (only single output)



Pin Function	
PIN	Single Output
24	+Vin
1	-Vin
13	+Vout
12	-Vout

C Type (size:31.8x20.3x10.0mm) 10PIN

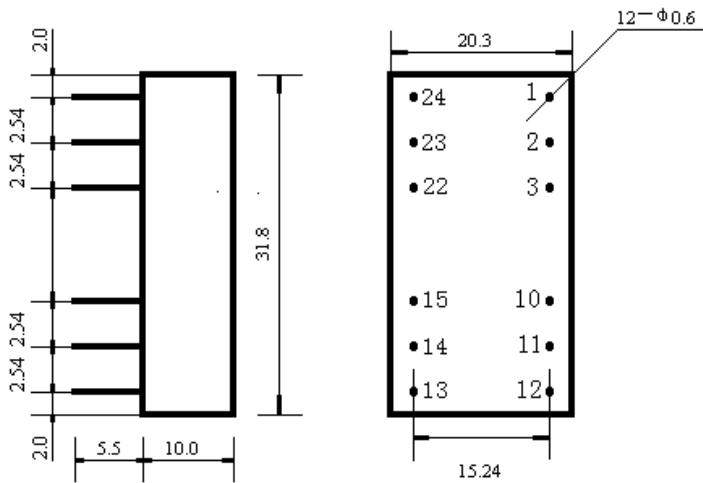


Left View

Bottom View

Pin Function		
PIN	Dual Output	Single Output
22,23	+Vin	+Vin
2,3	-Vin	-Vin
14	+Vout	+Vout
16	COM	COM
9	NC	COM
10,15	NC	NC
11	NC	-Vout

D Type (size:31.8x20.3x10.0mm) 12PIN



Left View

Bottom View

Pin Function		
PIN	Dual Output	Single Output
1,24	+Vin	+Vin
12,13	-Vin	-Vin
11,14	+Vout	+Vout
10,15	COM	COM
3,22	NC	COM
2,23	NC	-Vout