

WRA(B)xxxxD Series DC-DC Converter

Features:

- >> Wide voltage range (2:1) input
- >>500Vmin 1KVDC isolation regulated output
- >>PCB Mounted type, DIP 24Pin package
- >>WRA: Dual output, WRB: Single output
- >>No heat-sink required
- >> With over current short-circuit protection

It is widely used in industry Control system, Measurement, Wireless network, safety instruments, telecom, Semiconductor equipment.



Technical Parameters

Output Characteristics:		
Items	Parameter	Test Condition
Precision	Main way: 1.0%max	0%~100% load range
	No-main way: 2.0%max	
Voltage regulation	Main way: 0.2%max	Full Load
	No-main way: 0.5%max	
Load regulation	Main way: 0.5%max	0%~100% load range
	No-main way: 1.0%max	
Over current protection	110%	
Ripple and noise	$V_o \leq 5V$, $V_p-p_{max} \leq 50mV$	20MHz bandwidth
	$V_o \geq 48V$, $V_p-p_{max} \leq 200mV$	
	Other, $V_p-p_{max} \leq 100mVp-p$	
Dynamic response speed	$\leq 150\mu s$	Load 25%~100%
Start up delay time	500ms	
Input Characteristic:		
Input voltage range	(5VDC) 4.5—9.0VDC	
	(12VDC) 9.0—18VDC	
	(24VDC) 18—36VDC	
	(48VDC) 36—72VDC	
Linearity high speed	0.5%	Low~High

Generally Characteristics:		
Switching frequency	450KHz	Type
Transform efficiency	See typical product list	
Protection characteristic	Over current short circuit protection	
Isolation voltage	1000VDC	Input to output
MTBF	1000000 hrs	
Temperature coefficient	0.02%/ grade.C	
Dimension	31.8x20.3x10.14mm	
Environmental Characteristic:		
Operating temperature range	-25~+60 grade.C	
Humidity temperature	-45~+105 grade.C	
Relative humidity	10%~90%	
Cooling	Free air convection	

Typical Product List

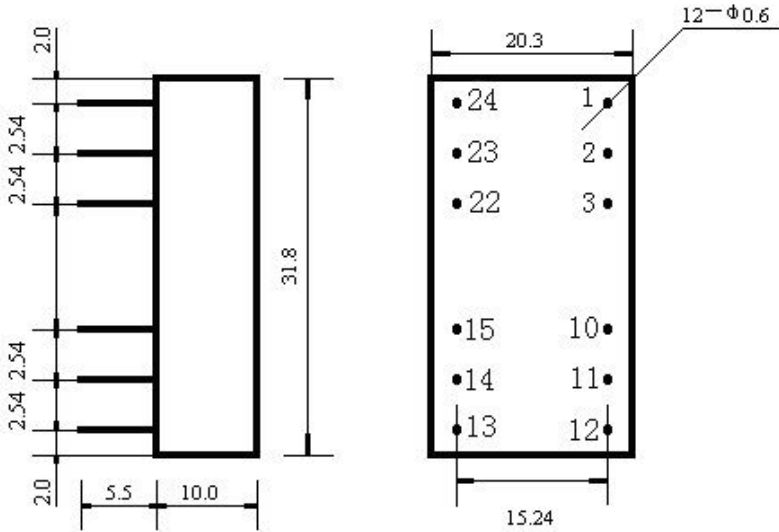
Input voltage(V)		Output (V)	Output Current (mA)	Efficiency (%)	Part No.	Output channel
Typical	Range					
5	4.5~9.0	+5.0	+400	69	WRB0505D-2W	Single
5	4.5~9.0	±12.0	±125	68	WRA0512D-3W	Dual
5	4.5~9.0	±15.0	±100	71	WRA0515D-3W	Dual
12	9.0~18	+5.0	+600	72	WRB1205D-3W	Single
12	9.0~18	±15.0	±100	76	WRA1215D-3W	Dual
12	9.0~18	±5.0	±300	75	WRA1205D-3W	Dual
24	18~36	±15.0	±130	76	WRA2415D-4W	Dual
12	9.0~18	±5.0	±500	71	WRA1205D-5W	Dual
24	18~36	±12.0	±125	83	WRA2412D-3W	Dual
24	18~36	+5.0	+1000	75	WRB2405D-5W	Single
24	18~36	+15.0V	+330	83	WRB2415D-5W	Single
24	18~36	+24	+208	83	WRB2424D-5W	Single
48	36~72	+5.0	+800	70	WRB4805D-4W	Single
48	36~72	+12.0	+420	82	WRB4812D-5W	Single

48	36~72	±12.0	±210	83	WRA4812D-5W	Dual
48	36~72	±15.0	±165	83	WRA4815D-5W	Dual

Note: If you need other models, please inquire us.

Dimension& PIN Definition

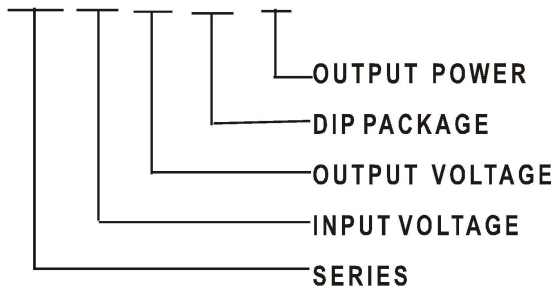
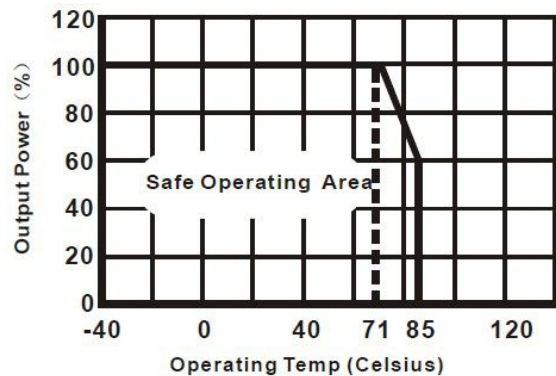
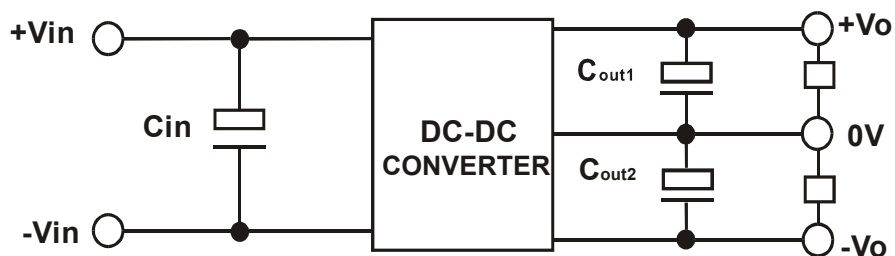
Unit:mm



Left View

Bottom View

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

Model Selection
WRB 12 05 D - 2W

Temperature derating graph

Typical Connection


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