ECCO Electronics Technology Co.,ltd

1W series DC/DC converter

Typical Performance

FEATURES

- 2:1、4:1 Wide Input Range, isolation, Regulated Output,1W
- I/O Isolation : 1500VDC
- Efficiency :up to 80%
- Short circuit protection(automatic recovery)
- Working temperature -40℃~+85℃
- MTBF≥10×10^5Hrs
- In line with RoHS Compliant
- Postive voltage accuracy:±1%(typ)
- Negative voltage accuracy:±3%(typ)
- Line regulation (Vin from low to high): ±0.2%(typ)
- Load regulation (10%-100% load) :±0.5%
- Ripple&noise(20MHz Band width) <75mVp-p
- Temperature drift(100% full load):±0.03%/℃(max)
- Switching Frequency(Full load,nominal input):300Khz(PFM)
- Storage Temperature:-55℃~+125℃
- Isolation Resistance:1000MΩ/1min
- Cooling:Free aire converction



3-Years Product Warranty

WRD	XX	XX	XX	S	1W
①	②	③	④	⑤	⑥

①Series name
②Normal input voltage
③Output voltage 1
④Output voltage 2
⑤Single output
⑥Output power

Product Program

Part #	Input voltage range	Nominal output voltage / output current						Efficiency (%, typ)
		VO1			VO2			
		Voltage (VDC)	Min (mA)	Max (mA)	Voltage (VDC)	Min (mA)	Max (mA)	
WRD050505S-1W	5V（4. 5~9VDC）	5	100		5	100		73
WRD050512S-1W		5	100		12	42		75
WRD050515S-1W		5	100		15	33		75
WRD050524S-1W		5	100		24	21		75
WRD120505S-1W	12V(9~18VDC)	5	100		5	100		75
WRD120512S-1W		5	100		12	42		78
WRD120515S-1W		5	100		15	33		78
WRD120524S-1W		5	100		24	21		75
WRD180505S-1W	18V(9~36VDC)	5	100		5	100		75
WRD180512S-1W		5	100		12	42		76
WRD180515S-1W		5	100		15	33		76
WRD180524S-1W		5	100		24	21		75

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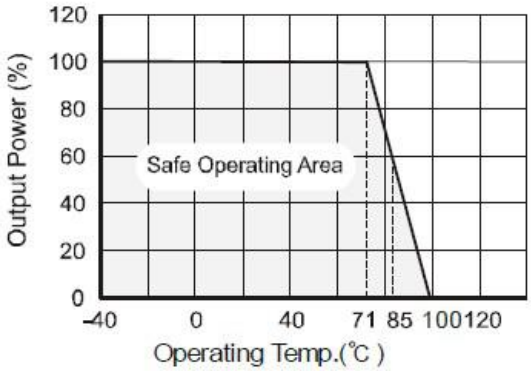
WRD240505S-1W	24V（18~36VDC）	5	100		5	100		75
WRD240512S-1W		5	100		12	42		78
WRD240515S-1W		5	100		15	33		78
WRD240524S-1W		5	100		24	21		75
WRD360505S-1W	36V(18~72VDC)	5	100		5	100		75
WRD360512S-1W		5	100		12	42		76
WRD360515S-1W		5	100		15	33		76
WRD360524S-1W		5	100		24	21		75
WRD480505S-1W	48V（36~72VDC）	5	100		5	100		75
WRD480512S-1W		5	100		12	42		78
WRD480515S-1W		5	100		15	33		78
WRD480524S-1W		5	100		24	21		75

□ Shows the nominal value of input voltage,due to space limitations ,the above list is only for some products,If other than a list of products, please contact the Company's sales department.

Mechanical Data

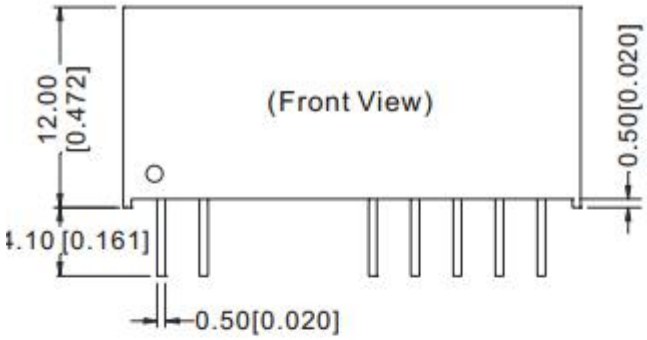
Output power	L x W x H ： mm	Packing No.
1W	27.00 x 9.5 x12	

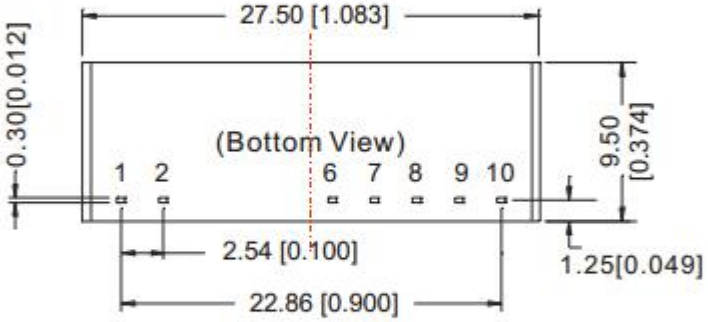
Typical Temperature Curve



Mechanical Dimension

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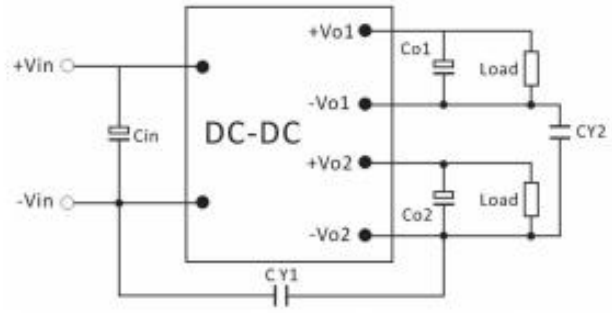




FOOTPRINT DETAILS	
Pin	Function
1	GND
2	Vin
6	+Vo1
7	0V1
8	CS
9	0V2
10	+Vo2

UNIT:mm（inch）

Recommend Circuit



Cin、Cout select

Vin	*Cin*	*Vout*	*Cout*
5VDC	100uF	5VDC	100uF
12VDC	68uF	12VDC	68uF
24VDC	47uF	24VDC	47uF

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48VDC	22uF	48VDC	22uF

Application Note

1. The load shouldn't be over the max load and shouldn't be less than 10%, otherwise the ripple will increase dramatically,then they may not meet all specification listed.
2. To be more reliable, if your circuit load power demand is smaller, please connect an appropriate resistor to increase Load in following output.
3.This product doesn't support hot-swappable, can't be used in parallel.

*Note：The power modules such as the definition of the pin does not match with the hand book,please refer to the actual item.

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