

Typical Performance

**FEATURES**

- 2:1 Wide Input Range, isolation, Regulated Output,2W
- I/O Isolation : 1000VDC,3000VDC
- Efficiency :up to 80%
- Short circuit protection(automatic recovery)
- Working temperature -40℃~+85℃
- MTBF≥10×10<sup>5</sup>Hrs
- 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) <100mVp-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 convection



**3-Years Product Warranty**

WW 2 XX S/D XX S/S3  
① ② ③ ④ ⑤ ⑥

- ① Series name
- ② Output watt
- ③ Normal input voltage
- ④ S:Single output  
D: Dual output
- ⑤ Output voltage
- ⑥ I/O isolation(S:1KV,no S:1.5KV,S3:3KV)

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)	
WW2-05S05	5V (4.5~9VDC)	5	40	400				
WW2-05S09		9	22	220				
WW2-05S12		12	16	166				
WW2-05S15		15	13.6	136				
WW2-05S24		24	8.4	84				
WW2-05D05		+5	20	200	-5		200	
WW2-05D09		+9	11	110	-9	11	110	
WW2-05D12		+12	8	80	-12	8	80	
WW2-05D15		+15	6.6	66	-15	6.6	66	
WW2-05D24		+24	4.2	42	-24	4.2	42	
WW2-12S05			5	40	400			

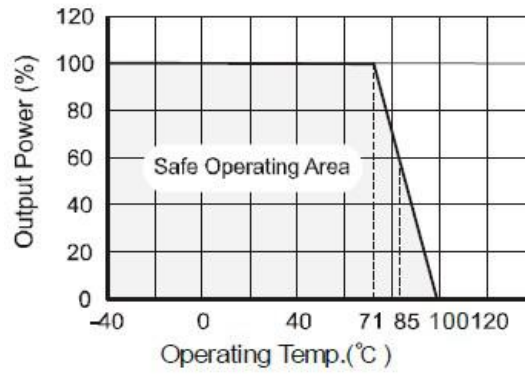
WW2-12S09		9	22	220				
WW2-12S12		12	16	166				
WW2-12S15		15	13.6	136				
WW2-12S24		24	8.4	84				
WW2-12D05S		+5	20	200	-5	20	200	
WW2-12D09		+9	11	110	-9	11	110	
WW2-12D12		+12	8	80	-12	8	80	
WW2-12D15		+15	6.6	66	-15	6.6	66	
WW2-12D24		+24	4.2	42	-24	4.2	42	
WW2-24S05		24V (18~36VDC)	5	40	400			
WW2-24S09	9		22	220				
WW2-24S12	12		16	166				
WW2-24S15	15		13.6	136				
WW2-24S24	24		8.4	84				
WW2-24D05	+5		20	200	-5		200	
WW2-24D09	+9		11	110	-9	11	110	
WW2-24D12	+12		8	80	-12	8	80	
WW2-24D15	+15		6.6	66	-15	6.6	66	
WW2-24D24	+24		4.2	42	-24	4.2	42	
WW2-48S05	48V (36~72VDC)	5	40	400				
WW2-48S09		9	22	220				
WW2-48S12		12	16	166				
WW2-48S15		15	13.6	136				
WW2-48S24		24	8.4	84				
WW2-48D05		+5	20	200	-5		200	
WW2-48D09		+9	11	110	-9	11	110	
WW2-48D12		+12	8	80	-12	8	80	
WW2-48D15		+15	6.6	66	-15	6.6	66	
WW2-48D24		+24	4.2	42	-24	4.2	42	

□ 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.

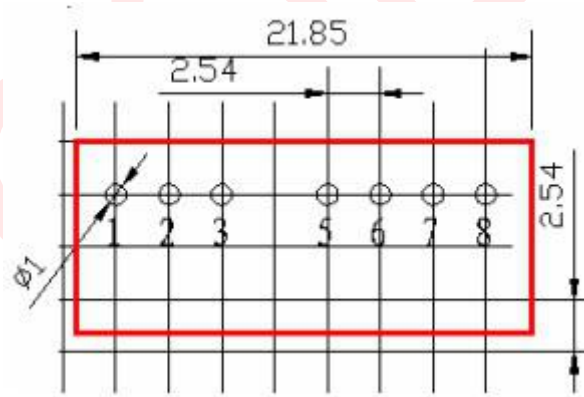
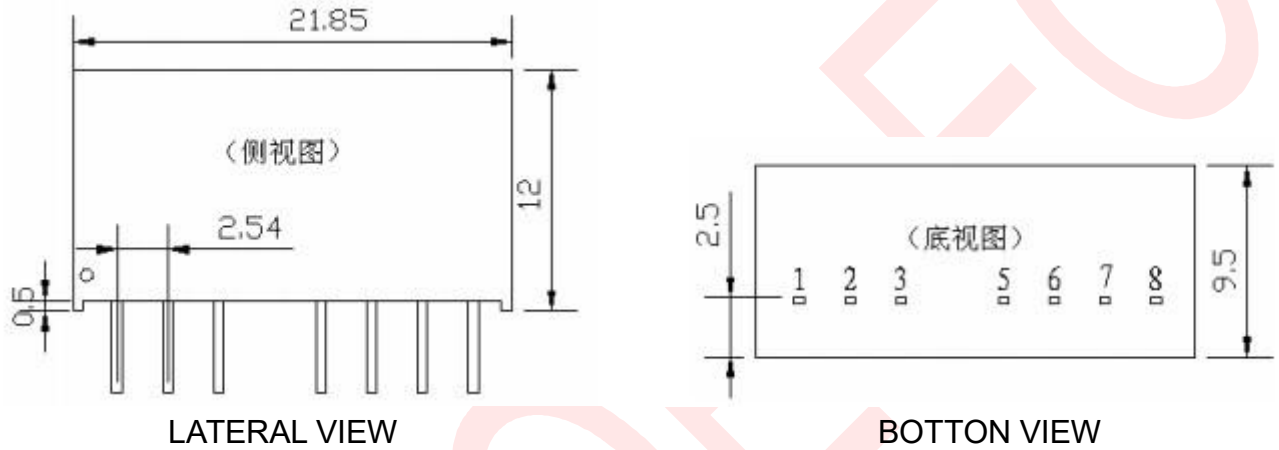
### Mechanical Data

Packing Code	L x W x H : mm	Packing No.
A	22.00 x 9.5 x 12	

### Typical Temperature Curve



## Mechanical Dimension

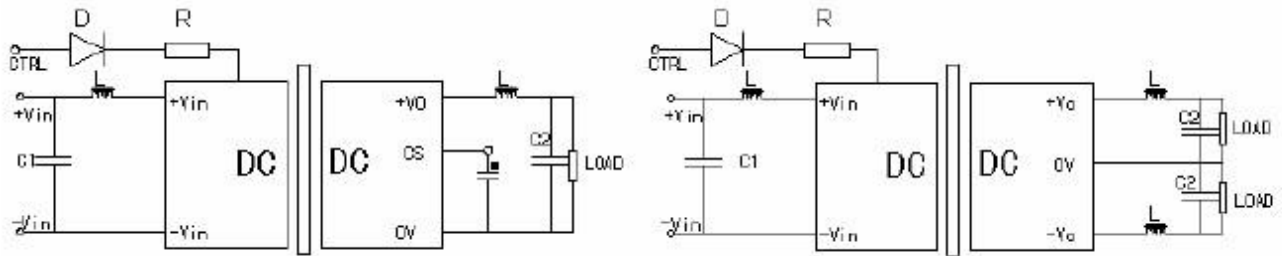


UNIT:mm

## Pin Assignment

PIN	1	2	3	5	6	7	8			
S	GND	Vin	CTRL	NC	+Vo	0V	CS			
D	GND	Vin	CTRL	NC	+Vo	0V	-Vo			

## Recommend Circuit



### C1, C2 select

Single O/P	C1	Dual O/P	C2
5VDC	1000uF	±5 VDC	680uF
9VDC	680uF	±9 VDC	470uF
12VDC	470uF	±12 VDC	330uF
15VDC	330uF	±15 VDC	220uF
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### 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 specifications 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.