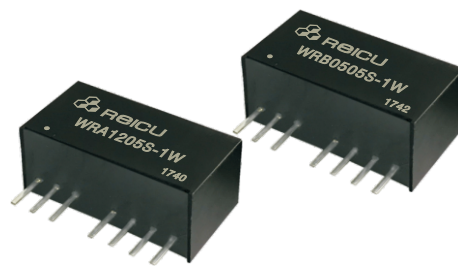


Features

- Efficiency up to 80%
- 1600VDC Isolation
- Singl/Double output
- Regulated output
- Remote On/Off Control
- Continous short circuit protection
- 2:1 Wide input voltage range
- Wide temperature -40℃ to 85℃
- Low ripple and noise



Model Selection Guide

Order Code	Vin(V)		Output		Max capacitive Load	Efficiency(%) (Typ)
	Nominal	Range	Vo(V)	Io(mA)		
WRB0505S-1W	5	4.5-9.0	5	200	330	70
WRB0509S-1W			9	111	330	70
WRB0512S-1W			12	83	330	75
WRB0515S-1W			15	67	220	72
WRB1205S-1W	12	9-18	5	200	330	76
WRB1209S-1W			9	111	330	77
WRB1212S-1W			12	83	330	79
WRB1215S-1W			15	67	220	81
WRB2405S-1W	24	18-36	5	200	330	75
WRB2409S-1W			9	111	330	78
WRB2412S-1W			12	83	330	80
WRB2415S-1W			15	67	220	81
WRB4805S-1W	48	36-72	5	200	330	76
WRB4809S-1W			9	111	330	78
WRB4812S-1W			12	83	330	80
WRB4815S-1W			15	67	220	80
WRA0505S-1W	5	4.5-9.0	±5	±100	220	72
WRA0512S-1W			±12	±42	220	74
WRA0515S-1W			±15	±33	100	73
WRA1205S-1W	12	9-18	±5	±100	220	76
WRA1212S-1W			±12	±42	220	73
WRA1215S-1W			±15	±33	100	75
WRA2405S-1W	24	18-36	±5	±100	220	78
WRA2412S-1W			±12	±42	220	78
WRA2415S-1W			±15	±33	100	76
WRA4805S-1W	48	36-72	±5	±100	220	75
WRA4812S-1W			±12	±42	220	77
WRA4815S-1W			±15	±33	100	75

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*All the specifications typical at Ta=+25℃ resistive load, nominal input voltage and rated output current unless otherwise noted.

Input Characteristics

Parameter	Condition	Min	Typ	Max	Units
Input Surge Voltage (1 sec. Max.)	5V Input Models	-0.7	--	15	VDC
	12V Input Models	-0.7	--	25	
	24V Input Models	-0.7	--	50	
	48V Input Models	-0.7	--	90	
Input Filter Type	All Models	Internal Capacitor			

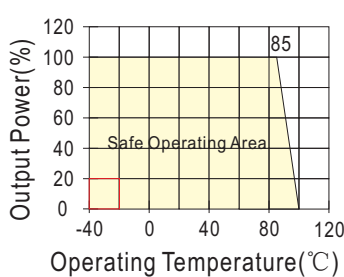
Output Characteristics

Parameter	Condition	Min	Typ	Max	Units
Line regulation	Full load, Vin(Min~Max)	±0.15	--	±0.5	%
Switching frequency	Full load,nominal input	--	250	--	KHz
Load regulation	10%~100% load	--	±0.5	±1	%
Ripple and noise	BW=DC to 20MHz	--	30	75	mVp-p
Short circuit Protection	Continuous, Automatic Recovery				

General Characteristics

Parameter	Condition	Min	Typ	Max	Units
Operating Temperature	All output types	-40	--	+85	℃
Storage		-55	--	+125	℃
Storage humidity		--	--	+95	%
Cooling	Free air convection	--	--	--	
Isolation voltage	1mA≤1minute	--	1600	--	VDC
Isolation resistance	500VDC	1000	--	--	M Ω
MTBF	2×10 ⁵				K hours
Case material	Plastic				

Temperature Derating Graph Curve



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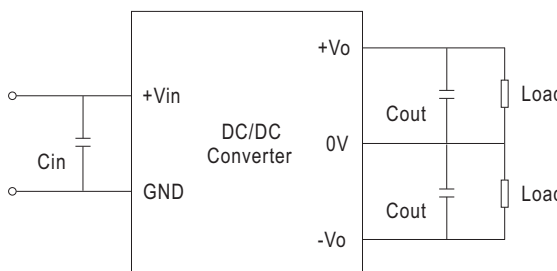
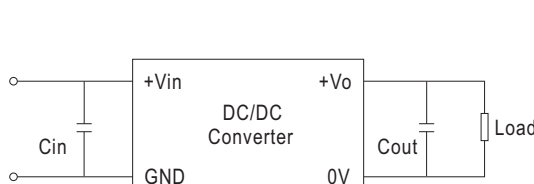
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Design & Feature Considerations

1. Input/Output Ripple Reduction

Reduce output ripple, it is recommended to use capacitors at the input/output.

It is recommended to use 10uF~100uF capacitors at the input; 3.3~22uF capacitors at the output.



2. Overload Protection

The products provide protection against overload, the unit is equipped with internal current limiting circuitry .

3. Remote On/Off (CTRL Terminal)

When open or high impedance, the converter work well; When this pin is high, the converter shut down; It should be note that the input current should be between 5-10mA, exceeding the maximum 20mA will cause permanence damage to the converter.

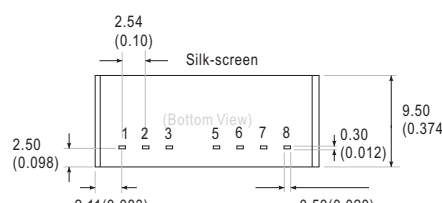
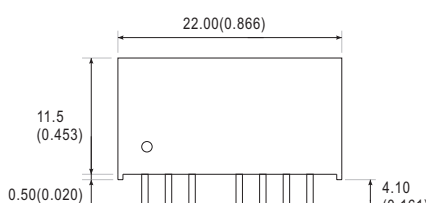
The value of R can be derived as follows:

$$R = \frac{V_C - V_D - 1.0}{I_C}$$

Note

- 1.To ensure this module can operate effcinetly and reliably,During operation,the minimum output load is not less than 10% of the full load.
- 2.Other input and output voltage may be available, please
- 3.Specifications subject to change without notice

Mechanical Dimension & Pin Connections


Note:
Unit:mm(inch)

Pin	1	2	3	5	6	7	8
Single	GND	Vin	CTRL	NC	+Vo	-Vo	CS
Double	GND	Vin	CTRL	NC	+Vo	COM	-Vo

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