

30-50W

DC/DC

## CRZ Series

## Features

- High voltage input
- Fast dynamic response
- Small form factor
- High efficiency, design for high reliability
- High conversion efficiency
- Current limiting & short circuit protection, with self recovery



## Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC
	110 VDC	60-160 VDC

Reverse Protection      Connect Fuse Outside

## Output Characteristic

Voltage Set-point Accuracy	$\pm 1\%$
Output Voltage Range	$\pm 10\%$
Line Regulation	$\pm 0.2\%$
Load Regulation	$\pm 0.4\%$
Temperature Coefficient	$\pm 0.01\%/^{\circ}\text{C}$
Output Current Limiting	120%(Typ)
Dynamic Response	400 $\mu\text{s}$
Output Current	1-10A
Output Voltage	5-24V
Power	30-50W

## General Characteristic

Switching Frequency	220	KHz
Isolation Resistance	200	M $\Omega$
MTBF	>500000	h
Isolation Voltage		
Input-Output	>1500	VDC
Input-Case	>1050	VDC
Output-Case	>500	VDC

## Environmental Characteristics

Case Temperature	(Industry) -25 - +85 $^{\circ}\text{C}$ (Military I) -40 - +85 $^{\circ}\text{C}$ (Military II) -55 - +85 $^{\circ}\text{C}$
Storage Temperature	(Industry) -45 - +105 $^{\circ}\text{C}$ (Military) -55 - +105 $^{\circ}\text{C}$

## Heat Characteristic

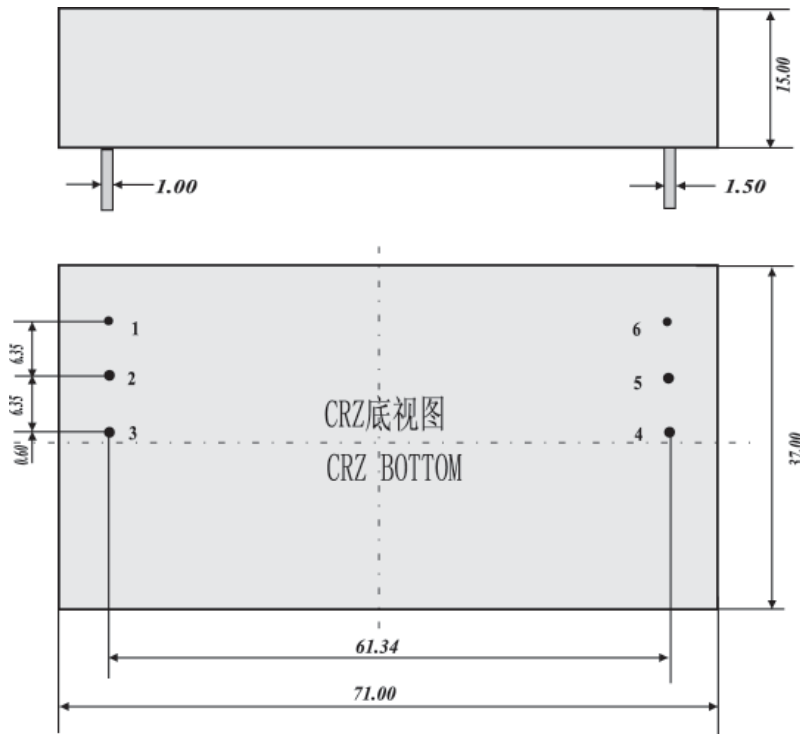
Cooling	Thermal Resistance
Breeze of Nature	
	8.2 $^{\circ}\text{C}/\text{W}$
0.5M/S	6.83 $^{\circ}\text{C}/\text{W}$
1M/S	5.13 $^{\circ}\text{C}/\text{W}$
1.5M/S	3.73 $^{\circ}\text{C}/\text{W}$
2M/S	3.07 $^{\circ}\text{C}/\text{W}$

## Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
12	9-18	5	6	50	85%	CRZ30-12S05
12	9-18	12	3.33	120	82%	CRZ40-12S12
24	18-36	5	6	50	83%	CRZ30-24S05
24	18-36	12	3.33	120	80%	CRZ40-24S12
48	36-72	12	2.5	120	85%	CRZ30-48S12
48	36-72	24	1.67	200	86%	CRZ40-48S24
110	60-160	5	6	50	85%	CRZ30-110S05
110	60-160	12	3.33	120	86%	CRZ40-110S12
110	60-160	24	2.08	200	85%	CRZ50-110S24

Only typical models listed. If you need other model, please contact us for costum models

## Mechanical drawing and pin definition



单位 (Unit) :mm

引脚 PIN	单路 SING
1	-Vin
2	REM
3	+Vin
4	+Vo
5	-Vo
6	TRIM