

Features

- C type input filter
- Full load efficiency up to 89%
- Design for high reliability, long lifetime
- Excellent current limiting protection, can continually operate in short circuit state
- Small form factor, low weight
- Completely isolate between input & output
- Natural cooling, no heat sink needed



Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC

Reverse Protection Connect Fuse Outside

Output Characteristic

Voltage Set-point Accuracy	± 1%
Line Regulation<main>	± 0.2%
Load Regulation<main>	± 0.4%
Cross Regulation (main 30%-100% load, sub 80% load)	± 3%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400 μ s
Output Current	0.1-6A
Output Voltage	1.8-48V
Power	5-12W

Note: Cross regulation is only refer to Multi-output.

General Characteristic

Switching Frequency	160 - 200	KHz
Isolation Resistance	200	M Ω
MTBF	>500000	h
Isolation Voltage		
Input-Output	>1500	VDC
Input-Case	>1050	VDC
Output-Case	>500	VDC
Main-Aux	>500	VDC

Environmental Characteristics

Case Temperature	(Industry) -25 - +85 °C
	(Military I) -40 - +85 °C
	(Military II) -55 - +85 °C
Storage Temperature	(Industry) -45 - +105 °C
	(Military) -55 - +105 °C

Heat Characteristic

Cooling	Thermal Resistance
Breeze of Nature	12.45°C/W
0.5M/S	10.37°C/W
1M/S	7.73°C/W
1.5M/S	5.63°C/W
2M/S	4.66°C/W

CR/CRF Series

5-12W

DC/DC

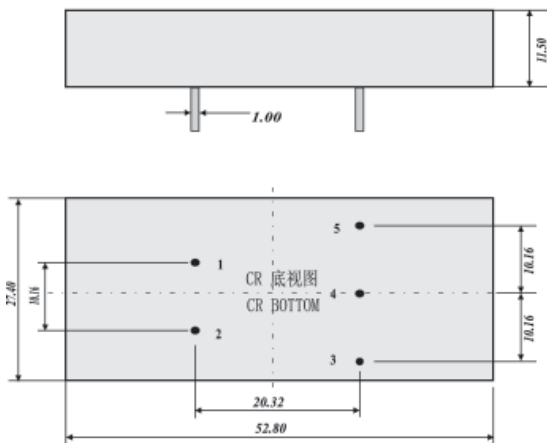
Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
12	9-18	1.8	1	50	68%	CR1.8-12S1.8
12	9-18	2.5	1	50	73%	CR2.5-12S2.5
12	9-18	3.3	2	50	80%	CR6.6-12S3.3
24	18-36	1.8	1	50	68%	CR1.8-24S1.8
24	18-36	2.5	1	50	75%	CR2.5-24S2.5
24	18-36	3.3	2	50	80%	CR6.6-24S3.3
48	36-72	1.8	1	50	70%	CR1.8-48S1.8
48	36-72	2.5	1	50	74%	CR2.5-48S2.5
48	36-72	3.3	2	50	80%	CR6.6-48S3.3
48	36-72	5.0	2.4	50	85%	CR12-48S05
24	18-36	± 1.8	± 0.5	50	75%	CRF1.8-24D1.8
24	18-36	± 2.5	± 1	50	78%	CRF05-24D2.5
24	18-36	± 3.3	± 1	50	79%	CRF6.6-24D3.3
24	18-36	± 5	± 1.2	50	85%	CRF12-24D05
24	18-36	± 12	± 0.21	120	86%	CRF05-24D12
24	18-36	± 15	± 0.2	150	88%	CRF06-24D15
48	36-72	± 1.8	± 0.5	50	75%	CRF1.8-48D1.8
48	36-72	± 2.5	± 1	50	78%	CRF05-48D2.5
48	36-72	± 3.3	± 1	50	79%	CRF6.6-48D3.3
48	36-72	± 12	± 0.21	120	86%	CRF05-48D12
48	36-72	± 15	± 0.2	150	89%	CRF06-48D15

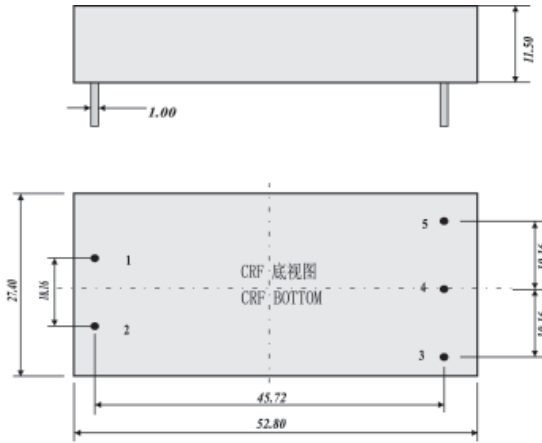
Only typical models listed. If you need other model, please contact us for costum models

Mechanical drawing and pin definition

CR series



CRF series



单位 (Unit) :mm

引脚 (PIN)	单路 (CR) SING	双路 (CRF) DOU
1	+Vin	+Vin
2	-Vin	-Vin
3	-Vo	-Vo
4	NC	GND
5	+Vo	+Vo