

75-200W

## CKN Series

DC/DC

## Features

- II type input filter
- 2X, 4X voltage input
- High power density
- Wide range of power, easy to upgrade
- Pin function compatible
- Design for high reliability, long lifetime
- Fast dynamic response
- Natural cooling, heat sink attachable



## Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC
	18 VDC	9-36 VDC
	72 VDC	16-160 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	1-16A
Output Voltage	1.8-48V
Power	75-200W

## General Characteristic

Switching Frequency	160 - 200	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

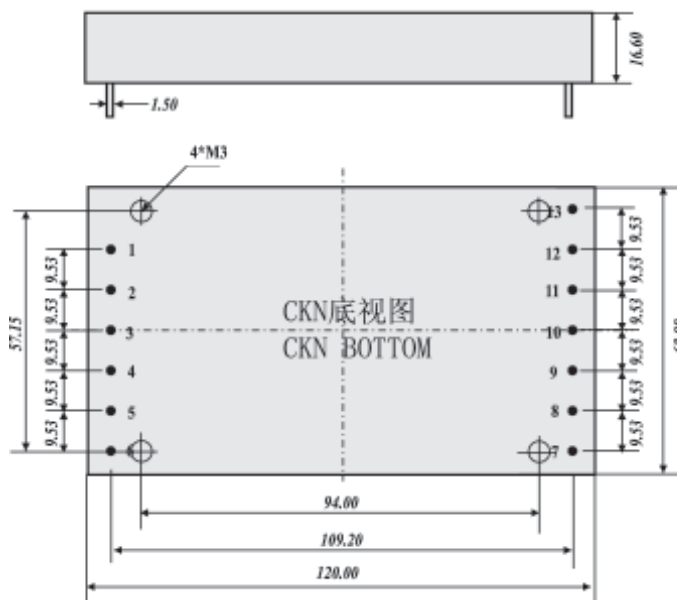
Cooling	Thermal Resistance
Breeze of Nature	2.79 $^{\circ}\text{C}/\text{W}$
0.5M/S	2.33 $^{\circ}\text{C}/\text{W}$
1M/S	1.73 $^{\circ}\text{C}/\text{W}$
1.5M/S	1.26 $^{\circ}\text{C}/\text{W}$
2M/S	1.04 $^{\circ}\text{C}/\text{W}$

### Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
12	9-18	05	15	50	85%	CKN75-12S05
12	9-18	12	8.3	120	86%	CKN100-12S12
12	9-18	15	10	150	86%	CKN150-12S15
12	9-18	24	6.25	200	87%	CKN150-12S24
12	9-18	28	5.36	280	87%	CKN150-12S28
12	9-18	48	4.17	400	88%	CKN200-12S48
18	9-36	24	6.25	200	86%	CKN150-18S24
24	18-36	05	15	50	86%	CKN75-24S05
24	18-36	12	8.3	120	87%	CKN100-24S12
24	18-36	15	10	150	87%	CKN150-24S15
24	18-36	24	6.25	200	88%	CKN150-24S24
24	18-36	28	7.14	280	88%	CKN200-24S28
24	18-36	48	4.17	400	89%	CKN200-24S48
48	36-72	05	15	50	87%	CKN75-48S05
48	36-72	12	8.3	120	88%	CKN100-48S12
48	36-72	15	10	150	88%	CKN150-48S15
48	36-72	24	8.33	200	89%	CKN200-48S24
72	16-160	24	6.25	200	86%	CKN150-72S24

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	-Vin
3	+Vin
4	+Vin
5	REM
6	CASE
7	+SENSE
8	TRIM
9	-SENSE
10	+Vo
11	+Vo
12	-Vo
13	-Vo