

100-500W

CK Series

DC/DC

Features

- II type input filter
- High output current and power
- Up to 28W/in³ power density
- Full load efficiency up to 91%
- Design for high reliability, long lifetime
- Pin function compatible
- Natural cooling, heat sink attachable
- Fast dynamic response
- Wide range of power, easy to upgrade



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%
Output Voltage Range	± 10%
Line Regulation	± 0.2%
Load Regulation	± 0.4%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400μs
Output Current	2-30A
Output Voltage	1.8-48V
Power	100-500W

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

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

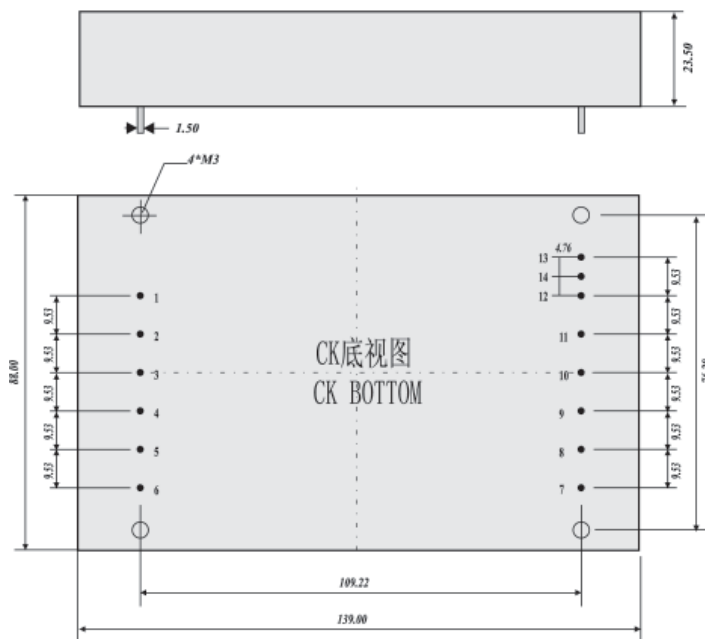
Heat Characteristic

Cooling	Thermal Resistance
Breeze of Nature	2.27°C/W
0.5M/S	1.89°C/W
1M/S	1.41°C/W
1.5M/S	1.03°C/W
2M/S	0.85°C/W

Models							
	Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
单路	12	9-18	5	20	50	82%	CK100-12S05
	12	9-18	12	12.5	120	82%	CK150-12S12
	12	9-18	13.8	14.5	120	82%	CK200-12S13.8
	24	18-36	5	20	50	85%	CK100-24S05
	24	18-36	12	12.5	120	82%	CK150-24S12
	24	18-36	15	13.3	150	83%	CK200-24S15
	48	36-72	5	20	50	85%	CK100-48S05
	48	36-72	12	12.5	120	86%	CK150-48S12
	48	36-72	13.8	14.5	120	85%	CK200-48S13.8
双路	12	9-18	5&5	5&5	50&50	82%	CK50-12D05&05
	12	9-18	5&12	15&2.1	50&120	83%	CK100-12D05&12
	12	9-18	13.8&13.8	5.43&5.43	120&120	82%	CK150-12D13.8&13.8
	24	18-36	12&12	3.13&3.13	120&120	83%	CK75-24D12&12
	24	18-36	15&15	6.67&6.67	150&150	87%	CK200-24D15&15
	24	18-36	24&12	8&9	200&120	85%	CK300-24D24&12
	48	36-72	5&12	15&2	50&120	88%	CK100-48D05&12
	48	36-72	13.8&13.8	5.43&5.43	120&120	85%	CK150-48D13.8&13.8
	48	36-72	24&24	4.17&4.17	200&200	91%	CK200-48D24&24

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	双路 DOU
1	-Vin	-Vin
2	-Vin	-Vin
3	+Vin	+Vin
4	+Vin	+Vin
5	REM	REM
6	CASE	CASE
7	+SENSE	+Vo2
8	TRIM	TRIM2
9	-SENSE	-Vo2
10	+Vo	+SENSE
11	+Vo	+Vo1
12	-Vo	-Vo1
13	-Vo	-SENSE
14	NC	TRIM1