

150-500W

CKK Series

DC/DC

Features

- Wide range of input voltage
- Design for high reliability, long lifetime
- Under- & over-voltage protection for output
- Full load efficiency up to 92%
- Fast dynamic response
- Up to 26 power density
- High voltage input, high output power
- Wide range of power, easy to upgrade



Input Characteristic

Voltage Range	300 VDC	200-400 VDC
	600 VDC	400-800 VDC

Reverse Protection Connect Fuse Outside

Output Characteristic

Voltage Set-point Accuracy	$\pm 1\%$
Output Voltage Range	$\pm 10\%$
Line Regulation<main>	$\pm 0.2\%$
Load Regulation<main>	$\pm 0.4\%$
Temperature Coefficient	$\pm 0.01\%/^{\circ}\text{C}$
Output Current Limiting	120%(Typ)
Dynamic Response	400 μs
Output Current	2-30A
Output Voltage	1.8-48V
Power	150-500W

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 $^{\circ}\text{C}$ (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

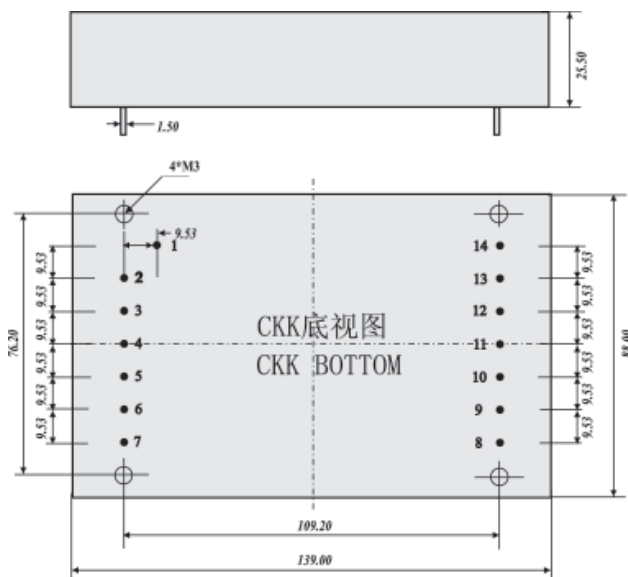
Cooling	Thermal Resistance
Breeze of Nature	2.27 $^{\circ}\text{C}/\text{W}$
0.5M/S	1.89 $^{\circ}\text{C}/\text{W}$
1M/S	1.41 $^{\circ}\text{C}/\text{W}$
1.5M/S	1.03 $^{\circ}\text{C}/\text{W}$
2M/S	0.85 $^{\circ}\text{C}/\text{W}$

Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
300	200-400	5	30	50	82%	CKK150-300S05
300	200-400	12	12.5	120	86%	CKK150-300S12
300	200-400	12	25	120	85%	CKK300-300S12
300	200-400	15	20	150	87%	CKK300-300S15
300	200-400	24	8.33	200	88%	CKK200-300S24
300	200-400	24	12.5	200	88%	CKK300-300S24
300	200-400	48	6.25	400	92%	CKK300-300S48
300	200-400	48	8.33	400	92%	CKK400-300S48
600	400-800	5	30	50	87%	CKK150-600S05
600	400-800	12	16.7	120	89%	CKK200-600S12
300	200-400	5&5	20&10	50&50	82%	CKK150-300D05&05
300	200-400	12&12	6.25&6.25	120&120	86%	CKK150-300D12&12
300	200-400	15&15	16.7&16.7	150&150	89%	CKK500-3-00D15&15
300	200-400	24&24	6.25&6.25	200&200	85%	CKK300-300D24&24
300	200-400	48&48	5.2&5.2	400&400	86%	CKK500-300D48&48
300	200-400	24&12	8&9	200&120	84%	CKK300-300D24&12
300	200-400	48&15	6&7.5	400&150	85%	CKK400-300D48&15
600	400-800	13.8&13.8	7.3&7.3	120&120	84%	CKK200-600D13.8&13.8
600	400-800	24&24	8.3&8.3	200&200	84%	CKK400-600D24&24
600	400-800	12&12	8.3&8.3	120&120	82%	CKK200-600D12&12

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