

# DC/DC CK,CKK 系列

150-500W

双路独立稳压，大电流、大功率输出



## 特性

### Features

- 输入  $\pi$  型滤波  $\pi$  type input filter
- 功率密度可达  $26W/in^3$  Up to  $26W/in^3$  power density
- 快速动态响应 Fast dynamic response
- 功率覆盖范围广，便于升级 Wide range of power ,easy to upgrade
- 高压输入，大功率输出 High voltage input,high output power
- 输入欠过压保护 Under-&over-voltage protection for input

## 输入特性

### Input Characteristics

电压范围： (Voltage Range)	<b>DC-DC</b> 12V <sub>DC</sub> (Normal)	9-18V <sub>DC</sub>
	24V <sub>DC</sub> (Normal)	18-36V <sub>DC</sub>
	48V <sub>DC</sub> (Normal)	36-72V <sub>DC</sub>
	300V <sub>DC</sub> (Normal)	200-400V <sub>DC</sub>
	600V <sub>DC</sub> (Normal)	400-800V <sub>DC</sub>

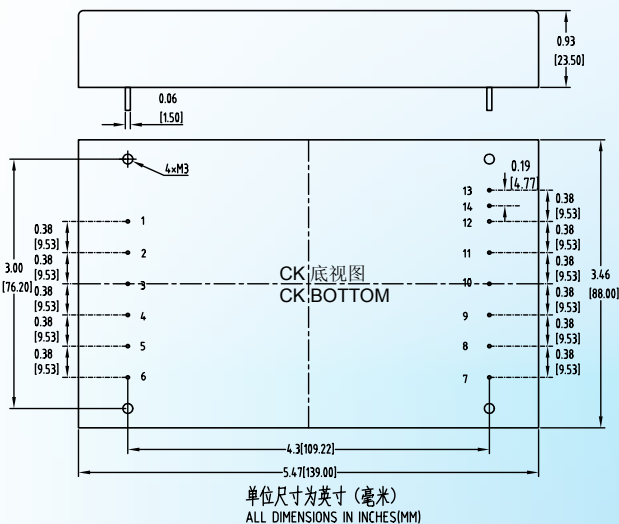
## 输出特性

### Output Characteristics

稳压精度： (Regulated Voltage Accuracy)	$\pm 1\%$
输出电压调节范围： (Line Regulation)	$\pm 10\%$
电压调整率（主路）： (Line Regulation)	$\pm 0.2\%$
负载调整率（主路）： (Load Regulation)	$\pm 0.5\%$
温度变化率： (Temperature Coefficient)	$\pm 0.02\% / ^\circ C$
电流限制点： (Output Current Limiting)	120% (Typ)
瞬态响应： (Transient Response)	400 $\mu s$

## 尺寸图

### Dimensioned Drawing



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

## 物理特性

结构尺寸：139\*88\*23.5mm(CK)  
139\*88\*25.5mm(CKK)  
重量：CK:0.3Kg CKK:0.36Kg

## 一般特性

### General Characteristics

工作频率（典型值）： (Switching Frequency)	200 KHz
隔离电阻： (Isolation Resistance)	200 (Typ) $\Omega$
MTBF：	>500000 hrs

## 绝缘强度 (Insulation Voltage)

输入 - 输出： (Input-Output)	> 1500 V <sub>DC</sub>
输入 - 外壳： (Input-Case)	> 1050 V <sub>DC</sub>
输出 - 外壳： (Output-Case)	> 500 V <sub>DC</sub>

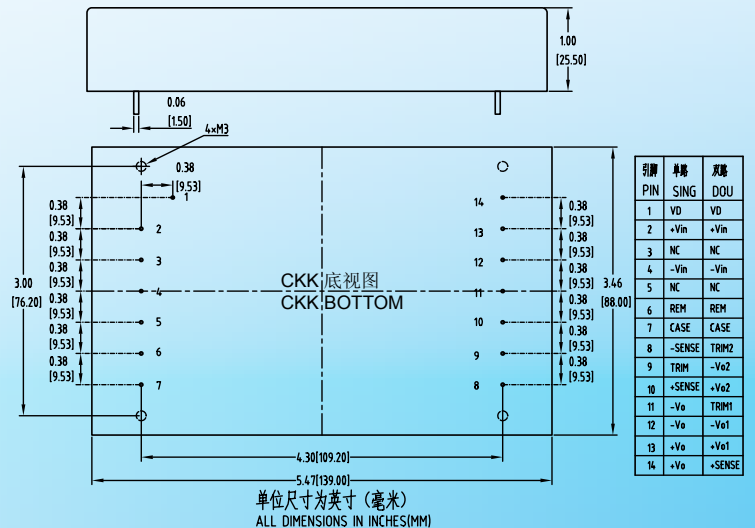
## 环境特性 (Environmental Characteristics)

工作壳温： (Operation Temperature)	工业品 (Industry)	-25~+85 $^\circ C$
	军 I (Military I)	-40~+85 $^\circ C$
	军 II (Military II)	-55~+85 $^\circ C$
存储温度： (Storage Temperature)	工业品 (Industry)	-45~+105 $^\circ C$
	军品 (Military)	-55~+105 $^\circ C$

## 热阻特性

### Thermal Characteristics

冷却方式： (Cooling)	热阻 (Thermal Resistance)
自然风冷： (Breeze of Nature)	2.27 $^\circ C / W$
0.5M/S	1.89 $^\circ C / W$
1M/S	1.41 $^\circ C / W$
1.5M/S	1.03 $^\circ C / W$
2M/S	0.85 $^\circ C / W$



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

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型号

Models

输入电压 (Vdc) Input Voltage	输入电压 (范围) Input Voltage<Range>	输出电压 (Vdc) Output Voltage	输出电流 (A) Output Current	纹波 pk-pk (mV) Ripple and noise	效率 (Typ) Efficiency	型号 Models
12	9-18	5	20	50	82%	CK100-12S05
12	9-18	12	8.33	120	82%	CK100-12S12
12	9-18	24	4.17	200	83%	CK100-12S24
12	9-18	12	16.67	120	82%	CK200-12S12
12	9-18	24	8.33	200	83%	CK200-12S24
12	9-18	12	25	120	82%	CK300-12S12
12	9-18	24	12.5	200	83%	CK300-12S24
12	9-18	24	16.67	200	83%	CK400-12S24
12	9-18	48	8.33	300	84%	CK400-12S48
12	9-18	24	20.83	200	83%	CK500-12S24
12	9-18	48	10.42	300	84%	CK500-12S48
24	18-36	12	8.33	120	82%	CK100-24S12
24	18-36	24	4.17	200	83%	CK100-24S24
24	18-36	12	16.67	120	82%	CK200-24S12
24	18-36	24	8.33	200	83%	CK200-24S24
24	18-36	12	25	120	82%	CK300-24S12
24	18-36	24	12.5	200	83%	CK300-24S24
24	18-36	24	16.67	200	83%	CK400-24S24
24	18-36	48	8.33	300	84%	CK400-24S48
24	18-36	24	20.83	200	83%	CK500-24S24
24	18-36	48	10.42	300	84%	CK500-24S48
48	36-72	12	8.33	120	82%	CK100-48S12
48	36-72	24	4.17	200	83%	CK100-48S24
48	36-72	12	16.67	120	82%	CK200-48S12
48	36-72	24	8.33	200	83%	CK200-48S24
48	36-72	12	25	120	82%	CK300-48S12
48	36-72	24	12.5	200	83%	CK300-48S24
48	36-72	24	16.67	200	83%	CK400-48S24
48	36-72	48	8.33	300	84%	CK400-48S48
48	36-72	24	20.83	200	83%	CK500-48S24
48	36-72	48	10.42	300	84%	CK500-48S48
300	200-400	24	6.25	200	83%	CKK150-300S24
300	200-400	24	12.5	200	83%	CKK300-300S24
300	200-400	48	8.33	300	84%	CKK400-300S48
300	200-400	48	10.42	300	84%	CKK500-300S48
600	400-800	24	6.25	200	83%	CKK150-600S24
600	400-800	24	8.33	200	83%	CKK200-600S24
600	400-800	48	6.25	300	84%	CKK300-600S48
600	400-800	48	8.33	300	84%	CKK400-600S48
600	400-800	48	10.42	300	84%	CKK500-600S48
12	9-18	05&12	6&5.83	50&120	82%	CK100-12D05&12
12	9-18	12&12	8.33&8.33	120&120	82%	CK200-12D12&12
12	9-18	12&24	8.33&8.33	120&200	83%	CK300-12D12&24
24	18-36	24&24	8.33&8.33	200&200	84%	CK400-24D24&24
24	18-36	24&24	10.42&10.42	200&200	83%	CK500-24D24&24
24	18-36	24&48	8.33&6.25	200&300	84%	CK500-24D24&48
48	36-72	24&24	8.33&8.33	200&200	84%	CK400-48D24&24
48	36-72	24&48	8.33&6.25	200&300	84%	CK500-48D24&48
300	200-400	12&12	8.33&8.33	120&120	82%	CKK200-300D12&12
300	200-400	12&24	8.33&8.33	120&200	83%	CKK300-300D12&24
300	200-400	24&24	8.33&8.33	200&200	84%	CKK400-300D24&24
300	200-400	24&24	10.42&10.42	200&200	83%	CKK500-300D24&24

单

路

双

路

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.