

15-20W

DC/DC

CJ Series

## 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, single output
- High power density
- Pin function compatible



## Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC
	110 VDC	80-180 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>	$\pm 0.4\%$
Cross Regulation (main 30%-100% load, sub 80% load )	$\pm 3\%$
Temperature Coefficient	$\pm 0.01\%/^{\circ}\text{C}$
Output Current Limiting	120%(Typ)
Dynamic Response	400 $\mu\text{s}$
Output Current	0.1-8A
Output Voltage	1.8-48V
Power	15-20W

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

## 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
Main-Aux	>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	12.45 $^{\circ}\text{C}/\text{W}$
0.5M/S	10.37 $^{\circ}\text{C}/\text{W}$
1M/S	7.73 $^{\circ}\text{C}/\text{W}$
1.5M/S	5.63 $^{\circ}\text{C}/\text{W}$
2M/S	4.66 $^{\circ}\text{C}/\text{W}$

Models							
Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models	
12	9-18	2.5	3	50	71%	CJ7.5-12S2.5	
12	9-18	3.3	4	50	75%	CJ13.2-12S3.3	
12	9-18	5.0	3	50	82%	CJ15-12S05	
24	18-36	2.5	3	50	73%	CJ7.5-24S2.5	
24	18-36	3.3	4	50	78%	CJ13.2-24S3.3	
24	18-36	5.0	3	50	82%	CJ15-24S05	
48	36-72	2.5	3	50	75%	CJ7.5-48S2.5	
48	36-72	3.3	4	50	79%	CJ13.2-48S3.3	
48	36-72	5.0	3	50	82%	CJ15-48S05	
110	80-180	24	0.63	200	85%	CJ15-110S24	
12	9-18	± 2.5	± 2	50	78%	CJ10-12D2.5	
12	9-18	± 5	± 1.5	50	80%	CJ15-12D05	
12	9-18	± 15	± 0.5	150	86%	CJ15-12D15	
24	18-36	± 3.3	± 2	50	79%	CJ13.2-24D3.3	
24	18-36	± 5	± 1.5	50	80%	CJ15-24D05	
24	18-36	± 12	± 0.83	120	86%	CJ20-24D12	
48	36-72	± 3.3	± 2	50	79%	CJ13.2-48D3.3	
48	36-72	± 5	± 1.5	50	85%	CJ15-48D05	
48	36-72	± 15	± 0.5	150	89%	CJ15-48D15	
110	80-180	± 5	± 1.5	50	85%	CJ15-110D05	
110	80-180	± 12	± 0.83	120	86%	CJ20-110D12	
110	80-180	± 24	± 0.4	200	86%	CJ20-110D24	

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

## Mechanical drawing and pin definition

