

100-150W

DC/DC

CW Series

Features

High power density
 II type input filter
 Design for high reliability, long lifetime
 Full load efficiency up to 88%
 Small form factor, high output power
 Fast dynamic response
 Natural cooling, heat sink attachable
 Wide range of power, easy to upgrade



Input Characteristic

Voltage Range	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<main>	± 0.2%
Load Regulation<main>	± 0.4%
Cross Regulation (main 30%-100% load, sub 80% load)	± 3%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400µs
Output Current	2-30A
Output Voltage	1.8-48V
Power	100-150W

Note: Cross regulation is only refer to Multi-output

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

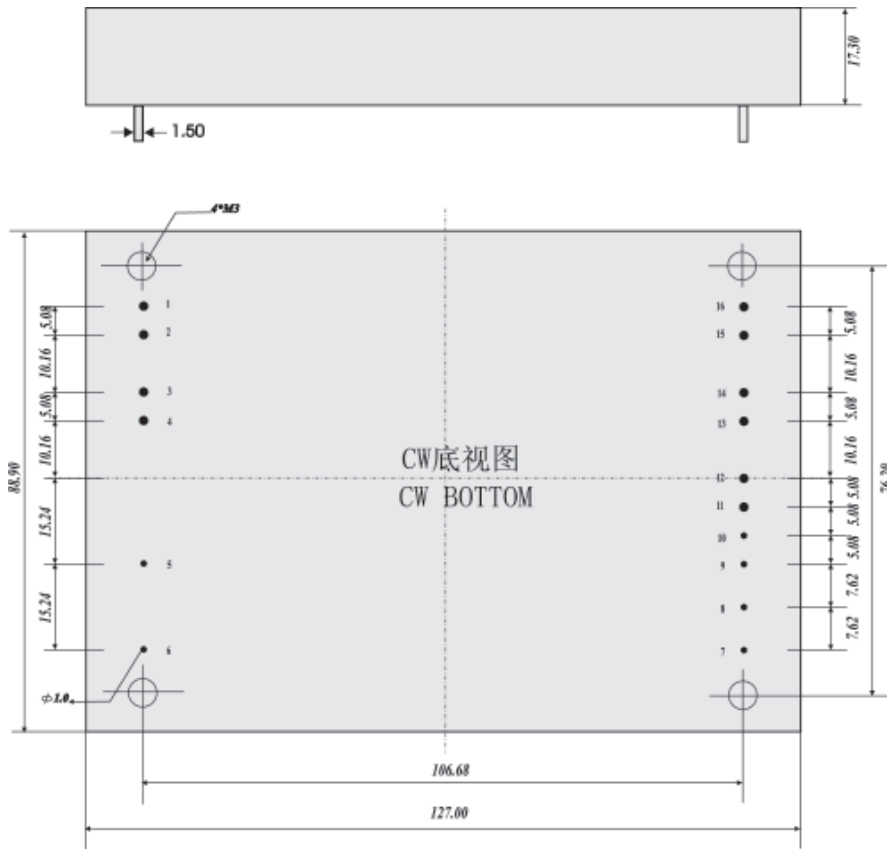
Cooling	Thermal Resistance
Breeze of Nature	2.50°C/W
0.5M/S	2.08°C/W
1M/S	1.56°C/W
1.5M/S	1.13°C/W
2M/S	0.94°C/W

Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
24	18-36	12	8.33	120	88%	CW100-24S12
24	18-36	15	6.67	150	87%	CW100-24S15
24	18-36	24	5.2	200	88%	CW125-24S24
48	36-72	15	6.67	150	87%	CW100-48S15
48	36-72	24	5.2	200	88%	CW125-48S24
48	36-72	48	3.1	400	88%	CW150-48S48
24	18-36	05+24	15,1.04	50,200	82%	CW100-24D05+24
24	18-36	24+12	3,6,1	200,120	83%	CW100-24D24+12
24	18-36	05+15	17,1	50,150	84%	CW100-24D05+15
48	36-72	05+12	15,1.67	50,120	88%	CW100-48D05+12
48	36-72	05+15	20,1.67	50,150	87%	CW125-48D05+15
48	36-72	05+12	25,2.08	50,120	88%	CW150-48D05+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	+Vin	+Vin
2	+Vin	+Vin
3	-Vin	-Vin
4	-Vin	-Vin
5	CASE	CASE
6	REM	REM
7	-SENSE	-SENSE
8	TRIM	TRIM
9	+SENSE	+SENSE
10	NC	NC
11	NC	V _{o2}
12	NC	V _{o2}
13	-V _o	GND
14	-V _o	GND
15	+V _o	V _{o1}
16	+V _o	V _{o1}