

25-40W

DC/DC

CA/CAH Series

Features

- Two stable outputs
- High voltage accuracy of main and auxiliary output
- II type input filter
- Design for high reliability, long lifetime
- Pin function compatible
- Fast dynamic response
- Wide range of power, easy to upgrade



Input Characteristic

Voltage Range	5 VDC	4.5-9 VDC
	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	$\pm 1\%$
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 μs
Output Current	0.1-10A
Output Voltage	1.8-48V
Power	25-40W

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
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 (CA)	Thermal Resistance (CAH)
Breeze of Nature	7.75 $^{\circ}\text{C}/\text{W}$	5.82 $^{\circ}\text{C}/\text{W}$
0.5M/S	6.46 $^{\circ}\text{C}/\text{W}$	4.85 $^{\circ}\text{C}/\text{W}$
1M/S	4.81 $^{\circ}\text{C}/\text{W}$	3.61 $^{\circ}\text{C}/\text{W}$
1.5M/S	3.51 $^{\circ}\text{C}/\text{W}$	2.63 $^{\circ}\text{C}/\text{W}$
2M/S	2.90 $^{\circ}\text{C}/\text{W}$	2.18 $^{\circ}\text{C}/\text{W}$

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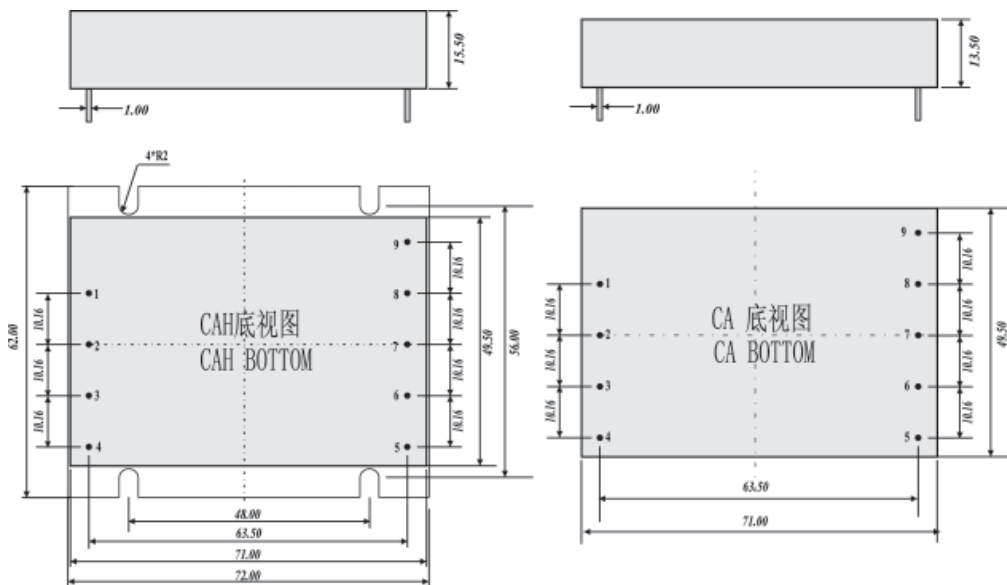
Models							
Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models	
5	4.5-9	3.3	5	50	76%	CA(H)16.5-05S3.3	
12	9-18	5	6	50	80%	CA(H)30-12S05	
24	18-36	12	3.33	120	85%	CA(H)40-24S12	
24	18-36	24	1.25	200	84%	CA(H)30-24S24	
48	36-72	24	1.25	200	85%	CA(H)30-48S24	
5	4.5-9	12&12	1.25/1.25	120&120	78%	CA(H)30-05D12&12	
12	9-18	15&15	1&1	150&150	85%	CA(H)30-12D15&15	
24	18-36	12&12	1.67&1.67	120&120	85%	CA(H)40-24D12&12	
48	36-72	5&5	3&3	50&50	83%	CA(H)30-48D05&05	
48	36-72	12&12	1.67&1.67	120&120	85%	CA(H)40-48D12&12	
12	9-18	± 05, + 12	± 2.0/+0.8	50/120	82%	CA(H)30-12T05+12	
24	18-36	± 12, + 05	± 0.7/+5.0	120/50	86%	CA(H)40-24T12+05	
24	18-36	± 15,+05	± 0.67/+4.0	150/50	86%	CA(H)40-24T15+05	
48	36-72	± 05, + 15	± 2.0/+0.7	50/150	85%	CA(H)30-48T05+15	
48	36-72	± 15, + 05	± 0.67/+4.0	150/50	86%	CA(H)40-48T15+05	

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

Mechanical drawing and pin definition

CAH series

CA series



单位 (Unit) :mm

引脚 PIN	单路 SING	双路 DOU	三路 TRIP
1	-Vin	-Vin	-Vin
2	+Vin	+Vin	+Vin
3	NC	NC	NC
4	REM	REM	REM
5	TRIM	TRIM	TRIM
6	+Vo	+Vo1	+Vo1
7	-Vo	-Vo1	GND
8	NC	+Vo2	+Vo2
9	NC	-Vo2	-Vo3