

15-30W

DC/DC

# CB/CBH Series

## Features

- II type input filter
- Design for high reliability, long lifetime
- High power density
- Full load efficiency up to 89%
- Pin function compatible
- Wide range of power, easy to upgrade
- Fast dynamic response
- Completely isolate between input & output



## Input Characteristic

Voltage Range	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	± 1%
Output Voltage Range	± 10%
Line Regulation	± 0.2%
Load Regulation	± 0.4%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400µs
Output Current	0.1-10A
Output Voltage	1.8-48V
Power	15-30W

## 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	Thermal Resistance
Breeze of Nature	(CB)	(CBH)
	6.80°C/W	5.58°C/W
0.5M/S	5.67°C/W	4.65°C/W
1M/S	4.23°C/W	3.47°C/W
1.5M/S	3.08°C/W	2.52°C/W
2M/S	2.55°C/W	2.09°C/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
12	9-18	2.5	3	50	71%	CB(H)7.5-12S2.5
12	9-18	3.3	4	50	75%	CB(H)14-12S3.3
12	9-18	5.0	6.0	50	82%	CB(H)30-12S05
12	9-18	12	1.67	120	85%	CB(H)20-12S12
12	9-18	15	1.67	150	86%	CB(H)25-12S15
12	9-18	24	1.25	200	87%	CB(H)30-12S24
12	9-18	48	0.52	400	87%	CB(H)25-12S48
24	18-36	2.5	3	50	73%	CB(H)7.5-24S2.5
24	18-36	3.3	4	50	78%	CB(H)13.2-24S3.3
24	18-36	5.0	6.0	50	83%	CB(H)30-24S05
24	18-36	12	1.25	120	84%	CB(H)15-24S12
24	18-36	15	1.67	150	85%	CB(H)25-24S15
24	18-36	24	1.25	200	88%	CB(H)30-24S24
24	18-36	48	0.52	400	89%	CB(H)25-24S48
48	36-72	2.5	3	50	75%	CB(H)7.5-48S2.5
48	36-72	3.3	4	50	79%	CB(H)13.2-48S3.3
48	36-72	5.0	6.0	50	84%	CB(H)30-48S05
48	36-72	12	1.67	120	86%	CB(H)20-48S12
48	36-72	15	1.67	150	87%	CB(H)25-48S15
48	36-72	24	1.25	200	88%	CB(H)30-48S24
48	36-72	48	0.31	400	88%	CB(H)15-48S48

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

## Mechanical drawing and pin definition

