

100-500W

DC/DC

COZ/CPZ Series

Features

- II type input filter
- 2X, 4X voltage input
- Feature constant output current
- Output short circuit protection, capacitive load >60,000 μ F
- Easy installation, single side pin out
- Best case attaching mode
- Design for high reliability, long lifetime



Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC
	18 VDC	9-36 VDC
Reverse Protection	Connect Fuse Outside	

Output Characteristic

Voltage Set-point Accuracy	$\pm 1\%$
Output Voltage Range	$\pm 10\%$
Line Regulation	$\pm 0.2\%$
Load Regulation	$\pm 0.4\%$
Temperature Coefficient	$\pm 0.01\%/^{\circ}\text{C}$
Output Current Limiting	120%(Typ)
Dynamic Response	400 μ s
Output Current	3-15A 任选
Output Voltage	1.8-48V
Power	100-500W

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 $^{\circ}\text{C}$
	(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	4.38 $^{\circ}\text{C}/\text{W}$
0.5M/S	3.65 $^{\circ}\text{C}/\text{W}$
1M/S	2.72 $^{\circ}\text{C}/\text{W}$
1.5M/S	1.98 $^{\circ}\text{C}/\text{W}$
2M/S	1.64 $^{\circ}\text{C}/\text{W}$

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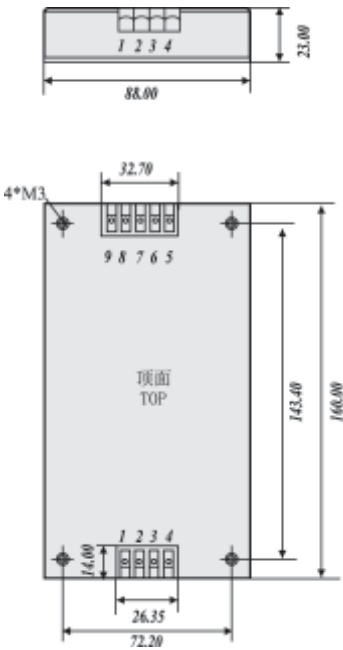
DC/DC

Models							
COZ、CPZ are almost the same, CPZ heat sink at bottom							
Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models	
12	9-18	12	8.3	120	83%	COZ100-12S12	
12	9-18	24	8.3	200	85%	COZ200-12S24	
24	18-36	28	8.9	280	88%	COZ250-24S28	
24	18-36	48	6.25	400	89%	COZ300-24S48	
24	18-36	12	16.7	120	85%	COZ200-24S12	
48	36-72	28	5.36	280	89%	COZ150-48S28	
48	36-72	24	12.5	200	89%	COZ300-48S24	
48	36-72	48	10.42	400	91%	COZ500-48S48	

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

Mechanical drawing and pin definition

Efficiency Curve (4x Voltage Input)



COZ series		CPZ series	
引脚 PIN	单路 SING	引脚 PIN	单路 SING
1	+Vin	1	-Vin
2	+Vin	2	-Vin
3	-Vin	3	+Vin
4	-Vin	4	+Vin
5	-Vo	5	TRIM
6	-Vo	6	+Vo
7	+Vo	7	+Vo
8	+Vo	8	-Vo
9	TRIM	9	-Vo

单位 (Unit) :mm

