

# DC/DC COZ,CPZ 系列

## 薄型、大功率、双路独立稳压

100-500W



### 物理特性

结构尺寸: 160\*88\*23mm  
重量: COZ:0.4Kg CPZ:0.47Kg

### 特性

#### Features

- 输入  $\pi$  型滤波  $\pi$  type input filter
- 高可靠性, 长寿命设计 Design for high reliability, long lifetime
- 安装方便, 单端出线 Easy installation, single outlet
- 最佳壳体连接方式 Est case attaching mode
- 恒流输出特性 Constant output current feature
- 输出短路保护, 容性负载 >6 万  $\mu$ F Output short circuit protection, capacitive load >60,000 $\mu$ F

### 输入特性

#### Input Characteristics

电压范围: (Voltage Range)	<b>DC-DC</b> 12V <sub>DC</sub> (Normal)	9-18V <sub>DC</sub>
	24V <sub>DC</sub> (Normal)	18-36V <sub>DC</sub>
	48V <sub>DC</sub> (Normal)	36-72V <sub>DC</sub>
四倍输入:	18V <sub>DC</sub> (Normal)	9-36V <sub>DC</sub>
反压保护: (Voltage Range)	应用时外接电熔丝 (External Fuse)	

### 输出特性

#### Output Characteristics

稳压精度: (Regulated Voltage Accuracy)	$\pm 1\%$
输出电压范围: (Line Regulation)	$\pm 10\%$
电压调整率: (Line Regulation)	$\pm 0.2\%$
负载调整率: (Load Regulation)	$\pm 0.5\%$
温度变化率: (Temperature Coefficient)	$\pm 0.02\% / ^\circ\text{C}$
电流限制点: (Output Current Limiting)	120% (Typ)
瞬态响应: (Transient Response)	400 $\mu$ s

### 选型说明

#### User's Selection Guide

- CPZ: 传导散热, 双端出线  
(Bottom heat conduction, two side terminal)
- COZ: 顶面散热, 双端出线  
(Top heat dissipation, two side terminal)

### 一般特性

#### General Characteristics

工作频率 (典型值): (Switching Frequency)	200 KHz
隔离电阻: (Isolation Resistance)	200 (Typ) M $\Omega$
MTBF:	>500000 hrs

#### 绝缘强度 (Insulation Voltage)

输入 - 输出: (Input-Output)	> 1500 V <sub>DC</sub>
输入 - 外壳: (Input-Case)	> 1050 V <sub>DC</sub>
输出 - 外壳: (Output-Case)	> 500 V <sub>DC</sub>

#### 环境特性 (Environmental Characteristics)

工作壳温: (Operation Temperature)	工业品 (Industry)	-25~+85 $^\circ\text{C}$
	军 I (Military I)	-40~+85 $^\circ\text{C}$
存储温度: (Storage Temperature)	军 II (Military II)	-55~+85 $^\circ\text{C}$
	工业品 (Industry)	-45~+105 $^\circ\text{C}$
	军品 (Military)	-55~+105 $^\circ\text{C}$

### 热阻特性

#### Thermal Characteristics

冷却方式: (Cooling)	热阻 (Thermal Resistance)
自然风冷: (Breeze of Nature)	2.01 $^\circ\text{C} / \text{W}$
0.5M/S	1.67 $^\circ\text{C} / \text{W}$
1M/S	1.25 $^\circ\text{C} / \text{W}$
1.5M/S	0.91 $^\circ\text{C} / \text{W}$
2M/S	0.75 $^\circ\text{C} / \text{W}$

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型号

Models

输入电压 (Vdc) Input Voltage	输入电压 (范围) Input Voltage<Range>	输出电压 (Vdc) Output Voltage	输出电流 (A) Output Current	纹波 pk-pk (mV) Ripple and noise	效率 (Typ) Efficiency	型号 Models
12	9-18	12	8.33	30	82%	CPZ-X100-12S12
12	9-18	12	8.33	120	82%	CPZ100-12S12
12	9-18	48	2.08	300	84%	CPZ100-12S48
12	9-18	12	12.5	30	82%	CPZ-X150-12S12
12	9-18	12	12.5	120	82%	CPZ150-12S12
12	9-18	48	3.13	300	84%	CPZ150-12S48
12	9-18	24	8.33	200	83%	CPZ200-12S24
12	9-18	48	4.17	300	84%	CPZ200-12S48
12	9-18	24	10.42	200	83%	CPZ250-12S24
12	9-18	48	5.21	300	84%	CPZ250-12S48
12	9-18	24	12.5	200	83%	CPZ300-12S24
12	9-18	28	10.7	300	84%	CPZ300-12S28
12	9-18	36	8.33	300	83%	CPZ300-12S36
12	9-18	48	6.25	300	84%	CPZ300-12S48
18	9-36	12	8.33	120	82%	CPZ100-18S12
18	9-36	24	4.17	200	83%	CPZ100-18S24
18	9-36	48	2.08	300	84%	CPZ100-18S48
18	9-36	12	12.5	120	82%	CPZ150-18S12
18	9-36	24	6.25	200	83%	CPZ150-18S24
18	9-36	48	3.13	300	84%	CPZ150-18S48
18	9-36	24	8.33	200	83%	CPZ200-18S24
18	9-36	48	4.17	300	84%	CPZ200-18S48
18	9-36	24	10.42	200	83%	CPZ250-18S24
18	9-36	48	5.21	300	84%	CPZ250-18S48
18	9-36	24	12.5	200	83%	CPZ300-18S24
18	9-36	36	8.33	300	84%	CPZ300-18S36
18	9-36	48	6.25	300	84%	CPZ300-18S48
24	18-36	12	8.33	30	82%	CPZ-X100-24S12
24	18-36	12	8.33	120	82%	CPZ100-24S12
24	18-36	48	2.08	300	84%	CPZ100-24S48
24	18-36	12	12.5	30	82%	CPZ-X150-24S12
24	18-36	12	12.5	120	82%	CPZ150-24S12
24	18-36	48	3.13	300	84%	CPZ150-24S48
24	18-36	24	8.33	200	83%	CPZ200-24S24
24	18-36	48	4.17	300	84%	CPZ200-24S48
24	18-36	24	10.42	200	83%	CPZ250-24S24
24	18-36	48	5.21	300	84%	CPZ250-24S48
24	18-36	24	12.5	200	83%	CPZ300-24S24
24	18-36	48	6.25	300	84%	CPZ300-24S48
24	18-36	24	16.67	200	83%	CPZ400-24S24
24	18-36	48	8.33	300	84%	CPZ400-24S48
48	36-72	12	8.33	120	83%	CPZ100-48S12
48	36-72	24	4.17	200	84%	CPZ100-48S24
48	36-72	24	12.5	200	83%	CPZ300-48S24
12	9-18	05&12	4&6.67	50&120	83%	CPZ100-12D05&12
12	9-18	05&12	10&8.33	50&120	83%	CPZ150-12D05&12
24	18-36	05&12	6&5.83	50&120	83%	CPZ100-24D05&12
24	18-36	05&12	8&9.17	50&120	83%	CPZ150-24D05&12
24	18-36	12&12	12.5&12.5	120&120	83%	CPZ300-24D12&12
24	18-36	24&24	6.25&6.25	200&200	83%	CPZ300-24D24&24
48	36-72	12&12	4.17&4.17	120&120	83%	CPZ100-48D12&12
48	36-72	24&24	3.13&3.13	200&200	84%	CPZ150-48D24&24

注：以上 CPZ 的选型，COZ 均可定制。 All above model CPZ selected COZ able to customize.  
型号中功率前面带“X”的为低纹波电源，纹波小于等于 30mV。 Model selection of the mark with an "X" is low ripple power supply ,the ripple is less than 30mV.

■ 说明：仅列出典型型号，其它型号请确定功率、输入电压及输出电压后，致电我公司。  
Only typical models and listed.If you need other models,please confirm the power,input voltage and output voltage,then phone us.