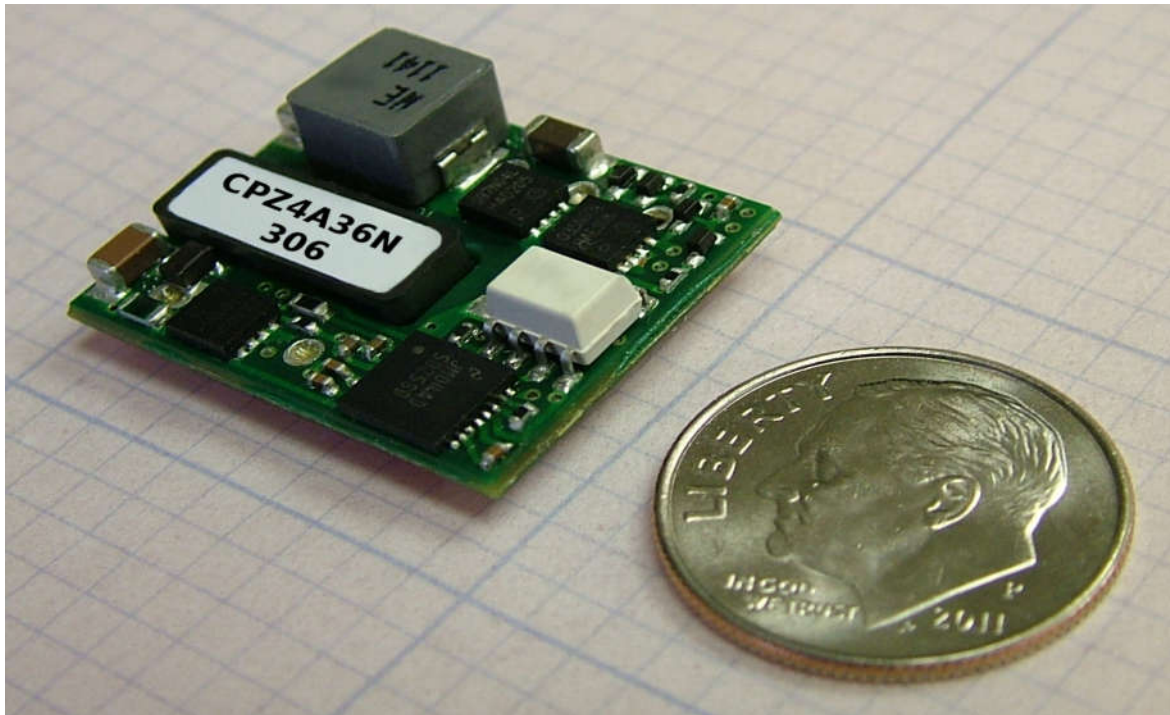




**SEMICONDUCTOR CIRCUITS, INC.**

*A Division of* **COOL POWER TECHNOLOGIES**



## **Isolated DC/DC Converters**

### **High Efficiency Product Selector Guide**



[www.dcdc.com](http://www.dcdc.com)

toll free  
888.438.3232

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888.GET.DCDC





Select module by output current and output voltage

## ISOLATED DC/DC CONVERTERS

I <sub>out</sub> \ V <sub>out</sub>	1.2V	1.8V	2.5V	3.3V	5V	± 5V	12V	± 12V	15V	± 15V	24V	30V	48V
± 0.50A										CP15X2310018 CP15X2310036			
± 0.625A								CP15X2212518 CP15X2212536					
± 1.5A						CP15X2130018 CP15X2130036							
1.0A									CPT1C24				
1.1A									CP15X1311018 CP15X1311036				
1.2A											CPE1D96* CPC1D96*		CPE1U48 CPC1U48
1.3A							CP15X1213018 CP15X1213036						
2A							CPZ2B18 CPZ2B36		CP30X1320018 CP30X1320036				
2.5A							CP30X1225018 CP30X1225036				CPE2D96* CPC2D96*		CPE2U48 CPC2U48
2.7A									CP40X1327018 CP40X1327036				
3A					CP15X1130018 CP15X1130036		CPZ3B24 CPZ3B48		CPT3C18 CPT3C36		CPE3D18 CPE3D36 CPC3D18 CPC3D36		
3.3A							CP40X1233018 CP40X1233036						
4A					CPZ4A18 CPZ4A36						CPE4D18 CPE4D36 CPC4D18 CPC4D36 CPE4D24 CPC4D24		
4.2A							CPT4B18 CPT4B36						
4.65A												CPE5R48 CPC5R48	
5A				CP15X1750018 CP15X1750036	CPZ5A24 CPZ5A48				CPE5C18 CPE5C36 CPC5C18 CPC5C36		CPE5D24 CPE5D48 CPC5D24 CPC5D48		
5.5A									CPT5C24 CPT5C48				
6A				CPZ6F18 CPZ6F36	CPZ6A24 CPZ6A48		CPE6B18 CPE6B36 CPC6B18 CPC6B36						
7A					CP30X1160018 CP30X1160036		CPT7B24 CPT7B48						
8A		CPZ8Y18 CPZ8Y36		CPZ8F24 CPZ8F48	CPT8A18 CPT8A36		CPE8B18 CPC8B18						
8.3A					CP40X1180018 CP40X1180036								
9A				CP30X1790018 CP30X1790036			CPT8B48 CPE9B36 CPC9B36						
10A					CPT10A12 CPT10A36		CPE10B36 CPC10B36		CPE10C24 CPE10C48 CPC10C24 CPC10C48				
12A		CPZ12Y24 CPZ12Y48		CPT12F48									
14A							CPE14B24 CPE14B48 CPC14B24 CPC14B48						
15A					CPT15A24 CPT15A48 CPT15F18 CPT15F36	CPE15A18 CPE15A36 CPC15A18 CPC15A36 CPD5C36							
16.7A							CPE17B50						
20A			CPT20G48	CPE20F18 CPE20F36 CPC20F18 CPC20F36 CPT20F48	CPE20A24 CPE20A48 CPC20A24 CPC20A48 CPT20A48								
30A	CPE30K48 CPC30K48			CPE30F24 CPE30F48 CPC30F24 CPC30F48	CPE30A48 CPC30A48								

MODEL TYPE	PACKAGE	Input Voltage Designator	OPTIONS AVAILABLE *
CPE	8th Brick	24 = 18 - 36Vdc	N or P = Negative or Positive Enable
CPT	16th Brick	48 = 36 - 75Vdc	S = Surface Mount Pins
CPZ	32nd Brick	50 = 38 - 60Vdc	T or N/P = Output Trim or Enable, CPC series only
CP-B	1 x 1 Brick	18 = 9 - 36Vdc*	Change the 'X' in CP##X part number to CP##B for open frame or
CPC	Chassis Mount	36 = 18 - 72Vdc*	CP##C for encapsulated option
CPD	Dual CPC series	96 = 45 - 140Vdc*	

\* Check datasheets for input voltage range and available options



Select module by output power and output voltage

## ISOLATED DC/DC CONVERTERS

W <sub>out</sub> \ V <sub>out</sub>	1.2V	1.8V	2.5V	3.3V	5V	± 5V	12V	± 12V	15V	± 15V	24V	30V	48V
14.4W		CPZ8Y18 CPZ8Y36											
15W					CP15X1130018 CP15X1130036	CP15X2130018 CP15X2130036		CP15X2212518 CP15X2212536	CPT1C24	CP15X2310018 CP15X2310036			
15.6W							CP15X1213018 CP15X1213036						
16.5W									CP15X1311018 CP15X1311036				
20W				CPZ6F18 CPZ6F36	CPZ4A18 CPZ4A36								
21.6W		CPZ12Y24 CPZ12Y48											
24W							CPZ2B18 CPZ2B36						
25W					CPZ5A24 CPZ5A48								
26.4W				CPZ8F24 CPZ8F48									
30W				CP30X1790018 CP30X1790036	CPZ6A24 CPZ6A48		CP30X1225018 CP30X1225036		CP30X1320018 CP30X1320036		CPE1D96* CPC1D96*		
36W	CPE30K48 CPC30K48				CP30X1160018 CP30X1160036			CPZ3B24 CPZ3B48					
40W					CP40X1180018 CP40X1180036		CP40X1233018 CP40X1233036		CP40X1327018 CP40X1327036				
45W				CPT12F48	CPT8A18 CPT8A36								
50W			CPT20G48	CPT15F18 CPT15F36	CPT10A12 CPT10A36		CPT4B18 CPT4B36		CPT3C18 CPT3C36				
60W													CPE1U48 CPC1U48
66W				CPE20F18 CPE20F36 CPC20F18 CPC20F36 CPT20F48									
72W							CPE6B18 CPE6B36 CPC6B18 CPC6B36				CPE3D18 CPE3D36 CPC3D18 CPC3D36 CPE2D96* CPC2D96*		
75W					CPT15A24 CPT15A48 CPE15A18 CPE15A36 CPC15A18 CPC15A36				CPE5C18 CPE5C36 CPC5C18 CPC5C36				
82.5W									CPT5C24 CPT5C48				
84W							CPT7B24 CPT7B48						
96W							CPE8B18 CPC8B18 CPE8B48 CPC8B48				CPE4D18 CPC4D18 CPE4D36 CPC4D36 CPE4D24 CPC4D24		
100W				CPE30F24 CPE30F48 CPC30F24 CPC30F48	CPT20A24 CPT20A48 CPE20A48 CPC20A24 CPC20A48		CPT8B48						
108W							CPE9B36 CPC9B36						
120W							CPE10B36 CPC10B36				CPE5D24 CPC5D24 CPC5D48		CPE2U48 CPC2U48
140W												CPE5R48 CPC5R48	
150W					CPE30A48 CPC30A48				CPE10C24 CPE10C48 CPC10C24 CPC10C48 CPD5C36				
168W							CPE14B24 CPE14B48 CPC14B24 CPC14B48						
200W							CPE17B50						

MODEL TYPE	PACKAGE	Input Voltage Designator	OPTIONS AVAILABLE *
CPE	8th Brick	24 = 18 - 36Vdc	N or P = Negative or Positive Enable
CPT	16th Brick	48 = 36 - 75Vdc	S = Surface Mount Pins
CPZ	32nd Brick	50 = 38 - 60Vdc	T or N/P = Output Trim or Enable, CPC series only
CP-B/C	1 x 1 Brick	18 = 9 - 36Vdc*	Change the 'X' in CP###X part number to CP##B for open frame or
CPC	Chassis Mount	36 = 18 - 72Vdc*	CP##C for encapsulated option
CPD	Dual CPC series	96 = 45 - 140Vdc*	

\* Check datasheets for input voltage range and available options

# SEMICONDUCTOR CIRCUITS, INC.

## Product Part Number Guide

	SERIES	OUTPUT CURRENT (AMPS)	OUTPUT VOLTAGE	INPUT VOLTAGE RANGE	ENABLE OPTION <sup>1</sup>	MOUNT CONFIGURATION*
<b>CP</b>	<b>T</b>	<b>8</b>	<b>B</b>	<b>48</b>	<b>N</b>	
Cool Power Technologies	E = 8th	1	A = 5V	12 = 9 - 18V	N = Neg Enable	Left Blank =
	T = 16th	3	B = 12V	18 = 9 - 36V	P = Pos Enable	Thru Hole Pins
	Z = 32nd	4	C = 15V	24 = 18 - 36V	Left Blank =	
	C = Chassis Mount	8	D = 24V	36 = 18 - 72V	no enable pin	S = Surface
	D = Dual CPC Series	10	F = 3.3V	48 = 36 - 75V		Mount
		12	G = 2.5V	50 = 38 - 60V		
		15	K = 1.2V	96 = 45 - 140V		
		20	M = 1.5V			B = Baseplate
		30	R = 30V			(Optional-CPE only)
			U = 48V			
		Y = 1.8V				

	OUTPUT POWER (Watts)	PACKAGE CONFIGURATION	OUTPUT CONFIG.	OUTPUT VOLTAGE	TOTAL OUTPUT CURRENT (AMPS) (x100)	INPUT VOLTAGE RANGE	ENABLE OPTION	MOUNT CONFIGURATION <sup>1</sup>
<b>CP</b>	<b>30</b>	<b>B</b>	<b>1</b>	<b>1</b>	<b>600</b>	<b>18</b>	<b>P</b>	
Cool Power Technologies 1x1 Series	15	B = open frame	1 = Single	1 = 5V	1.0A = 100	12 = 9 - 18V	N = Neg Enable	Left Blank =
	20	C = encapsulated	2 = Dual	2 = 12V	1.25A = 125	18 = 9 - 36V	P = Pos Enable	Thru Hole Pins
	25			3 = 15V	2.0A = 200	24 = 18 - 36V	Left Blank = no enable pin	
	30			4 = 24V	3.3A = 330	36 = 18 - 72V		S = Surface
	40			7 = 3.3V	6.0A = 600	48 = 36 - 75V		Mount
					8.35A = 835	50 = 38 - 60V		
					9.0A = 900			
				12.0A = 122				

Notes:

\* SMT option is not available with either Baseplated or Encapsulated units.

<sup>1</sup> Any unit may be ordered without either the N or P enable option. Just leave out of part number.