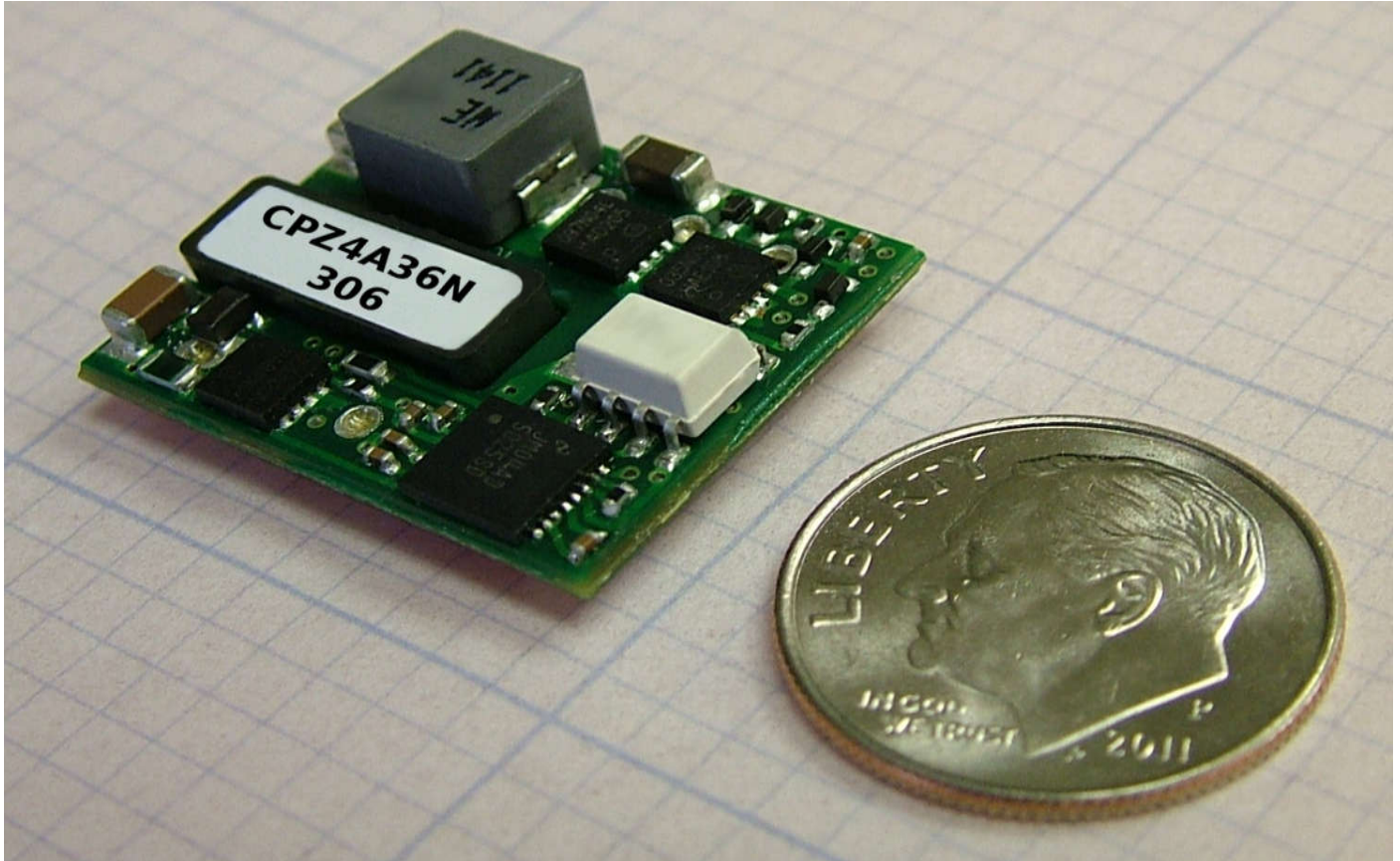




**SEMICONDUCTOR CIRCUITS, INC.**

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



## **Isolated DC/DC Converters**

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



Select module by output current and output voltage

## ISOLATED DC/DC CONVERTERS

$I_{out}$ \ $V_{out}$	1.2V	1.8V	2.5V	3.3V	5V	12V	±12V	15V	±15V	18V	24V	28-30V	48-50V
± 0.50A or ± 0.625A							CP15_2212518		CP15_2310018				
							CP15_2212536		CP15_2310036				
1.0A								CPT1C24					CPT1U36
1.1A - 1.3A						CP15_1213018		CP15_1311018			CP30_1412518		CP75_1612018
						CP15_1213036		CP15_1311036			CP30_1412536		CP75_1612036
													CPE1U36
													CPC1U36
													CPE1U48
													CPC1U48
2A - 2.5A						CPZ2B18		CP30_1320018			CPT2D36		CPE2U36
						CPZ2B36		CP30_1320036			CPP2D36		CPC2U36
						CP30_1225018					CP75_1425018		
						CP30_1225036					CP75_1425936		
3A - 3.3A				CP15_1730005	CP15_1130005	CPZ3B24		CPT3C18		CPT3L48	CPT3D48		CPE3R48
				CP15_1130018	CPZ3B48		CPT3C36		CPP3L48	CPP3D48	CPC3R48		
				CP15_1130036	CP40_1233018						CPE3D18		
					CP40_1233036						CPE3D36		
						CPT3B48					CPC3D18		
						CPP3B48					CPC3D36		
4A - 4.2A					CPZ4A18	CPT4B18				CPT4L48	CPE4D18		
					CPZ4A36	CPT4B36				CPP4L48	CPE4D36		
											CPC4D18		
											CPC4D36		
											CPE4D24		
											CPC4D24		
5A - 5.5A				CP15_1750018	CPZ5A24			CPE5C18			CPE5D24		CPE5R48
				CP15_1750036	CPZ5A48			CPE5C36			CPE5D48		CPC5R48
								CPC5C18			CPC5D24		
								CPC5C36			CPC5D48		
								CPT5C48					
6A				CPZ6F18	CPZ6A24	CPE6B18					CPE6D24		
				CPZ6F36	CPZ6A48	CPE6B36					CPC6D24		
					CP30_1160005	CPC6B18							
					CP30_1160018	CPC6B36							
				CP30_1160036									
					CPT6A48	CP75_1260018							
				CP30_1760005	CPP6A48	CP75_1260036							
7A - 7.5A				CP30_1775018		CPT7B24							
				CP30_1775036		CPP7B24							
						CPT7B48							
						CPP7B48							
8A - 8.3A		CPZ8Y18		CPZ8F24	CPT8A18	CPE8B18							
		CPZ8Y36		CPZ8F48	CPT8A36	CPE8B18							
				CPT8F18	CP40_1180018	CPE8B36							
				CPT8F36	CP40_1180036	CPC8B36							
						CPT8B48							
9A - 10A				CP40_1790018	CPT10A18	CPE9B36		CPE10C24					
				CP40_1790036	CPT10A36	CPC9B36		CPE10C48					
					CPT10A12	CPE10B36		CPC10C24					
						CPC10B36		CPC10C48					
12A - 14A		CPZ12Y24		CPT12F48	CPT14A36	CPE14B24							
		CPZ12Y48				CPE14B48							
						CPC14B24							
						CPC14B48							
15A - 17A						CPT15A24	CPE17B50						
						CPT15A48	CPC17B50						
					CPT15F18	CPE15A18							
					CPT15F36	CPE15A36							
					CPC15A18								
					CPC15A36								
				CP75_1715218	CP75_1115218								
				CP75_1715236	CP75_1115236								
20A - 25A			CPT20G48	CPE20F18	CPE20A24								
			CPP20G48	CPE20F36	CPE20A48								
				CPC20F18	CPE20A18								
				CPC20F36	CPE20A36								
				CPT25F48	CPC20A24								
					CPC20A48								
					CPC20A18								
					CPC20A36								
				CPT20F48	CPT20A48								
				CPP20F48	CPP20A48								
30A	CPE30K48			CPE30F24	CPE30A48								
	CPC30K48			CPE30F48	CPC30A48								
				CPC30F24									
				CPC30F48									

SERIES	PACKAGE	Input Voltage Designator	OPTIONS AVAILABLE *
CPE	8th Brick	05 - 4.5 - 9Vdc	N or P = Negative or Positive Enable
CPT	16th Brick	24 = 18 - 36Vdc	S = Surface Mount Pins
CPZ	32nd Brick	48 = 36 - 75Vdc	B = Baseplate (CPE/CPT only)
CPxx_	1 x 1/1 x 2	18 = 9 - 36Vdc*	Change the '_' in CPxx_ part number to CPxxB for open frame or CPxxC for encapsulated option
CPC	Chassis Mount	36 = 18 - 72Vdc*	T or N/P = Output Trim or Enable, CPC/CP series only
CPP	Chassis Mount	96 = 45 - 140Vdc*	

\* Check datasheet for model specific input voltage range



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	12V	±12V	15V	±15V	18V	24V	28-30V	48-50V
10W - 16.5W		CPZ8Y18		CP15_1730005	CP15_1130018	CP15_1213018	CP15_2212518	CP15_1311018	CP15_2310018				
		CPZ8Y36		CP15_1750018	CP15_1130036	CP15_1213036	CP15_2212536	CP15_1311036	CP15_2310036				
				CP15_1750036				CPT1C24 CPP1C24					
20W - 26.4W		CPZ12Y24		CP26F18	CPZ4A18	CPZ2B18							
		CPZ12Y48		CPZ6F36	CPZ4A36	CPZ2B36							
				CP30_1760005	CPZ5A24								
				CP30_1775018	CPZ5A48								
				CP30_1775036									
				CPZ8F24									
				CPZ8F48									
30W - 36W		CPE30K48		CP40_1790018	CPZ6A24	CPZ3B24		CP30_1320018					
		CPC30K48		CP40_1790036	CPZ6A48	CPZ3B48		CP30_1320036					
					CP30_1160018	CP30_1225018							
40W - 54W			CPT20G48	CPT12F48	CP40_1180018	CP40_1233018		CPT3C18		CPT3L48	CPT2D36		CPT1U36
			CPP20G18	CPT15F18	CP40_1180036	CP40_1233036		CPT3C36		CPP3L48	CPP2D36		CPP1U36
				CPT15F36	CPT8A18			CPP3C18					
				CPP12F48	CPT8A36			CPP3C36					
				CPP15F18	CPT10A18	CPT4B18							
				CPP15F36	CPT10A36	CPT4B36							
					CPP8A18								
				CP75_1715218	CPP8A36								
				CP75_1715236	CPP10A18								
					CPP10A36								
60W - 75W				CPE20F18	CPT14A36	CPE6B18		CPE5C18		CPT4L48	CPE3D18		CPE1U48
				CPE20F36	CPT15A24	CPE6B36		CPE5C36		CPP4L48	CPE3D36		CPC1U48
				CPC20F18	CPT15A48	CPC6B18		CPC5C18			CPC3D18		CPE1U36
				CPC20F36	CPE15A18	CPC6B36		CPC5C36			CPC3D36		CPC1U36
				CPT20F48	CPE15A36	CP75_1260018					CPE3D96*		
				CPP20F48	CPC15A18	CP75_1260036					CPC3D96*		
					CPC15A36						CP75_1425018		CP75_1612018
					CP75_1115218						CP75_1425936		CP75_1612036
82W - 96W						CPT7B24		CPT5C48			CPE4D18		CPE2U36
						CPT7B48		CPP5C48			CPC4D18		CPC2U36
						CPP7B24					CPE4D36		
						CPP7B48					CPC4D36		
						CPE8B18					CPE4D24		
						CPC8B18					CPC4D24		
						CPE8B48							
						CPC8B48							
100W - 144W				CPE30F24	CPT20A48	CPT8B48					CPE5D24	CPE3R48	
				CPE30F48	CPP20A48	CPP8B48					CPE5D48	CPC3R48	
				CPC30F24	CPE20A24	CPE9B36					CPC5D24		
				CPC30F48	CPC20A24	CPC9B36					CPC5D48		
					CPE20A48	CPE10B36					CPE6D24		
150W - 200W					CPC20A48	CPC10B36					CPC6D24		
					CPE30A48	CPE14B24			CPE10C24			CPE6R24	
					CPC30A48	CPE14B48			CPE10C48			CPC6R24	
						CPC14B24							
						CPC14B48			CPC10C24			CPE5R48	
					CPE17B50			CPC10C48			CPC5R48		

SERIES	PACKAGE	Input Voltage Designator	OPTIONS AVAILABLE *
CPE	8th Brick	05 - 4.5 - 9Vdc	N or P = Negative or Positive Enable
CPT	16th Brick	24 = 18 - 36Vdc	S = Surface Mount Pins
CPZ	32nd Brick	48 = 36 - 75Vdc	B = Baseplate (CPE/CPT only)
CPxx_	1 x 1/1 x 2	18 = 9 - 36Vdc*	Change the '_' in CPxx_ part number to CPxxB for open frame or CPxxC for encapsulated option
CPC	Chassis Mount	36 = 18 - 72Vdc*	T or N/P = Output Trim or Enable, CPC/ CPP series only
CPP	Chassis Mount	96 = 45 - 140Vdc*	

\* Check datasheet for model specific input voltage range

issue 4\_3-2021

# Product Part Number Guide

## 8th, 16th & 32nd Brick Products

	SERIES	OUTPUT CURRENT (AMPS)	OUTPUT VOLTAGE	INPUT VOLTAGE RANGE	ENABLE OPTION	MOUNT CONFIGURATION*
<b>CP</b>	<b>E</b>	<b>10</b>	<b>B</b>	<b>36</b>	<b>N</b>	
Cool Power Technologies	E = 8th	1	A = 5V	12 = 9 - 18V	N = Neg Enable	Left Blank = Thru Hole Pins
	T = 16th	3	B = 12V	18 = 9 - 36V	P = Pos Enable	
	Z = 32nd	4	C = 15V	24 = 18 - 36V		
		5	D = 24V	36 = 18 - 72V		S = Surface Mount non-baseplate only
	C = 3.5x2.5x1.5 Chassis Mount	6	F = 3.3V	48 = 36 - 75V		
		8	G = 2.5V	50 = 38 - 60V		
		10	K = 1.2V			B = Baseplate CPE/CPT Thru-hole Only (Other options possible)
	P = 2x2x1.2 Chassis Mount	12	L = 18V			
		15	R = 28-30V			
		20	U = 48-50V			
	30	Y = 1.8V				

## 1x1 & 1x2 Products

	OUTPUT POWER (Watts)	PACKAGE CONFIGURATION	OUTPUT CONFIG.	OUTPUT VOLTAGE	TOTAL OUTPUT CURRENT (AMPS) (x100)	INPUT VOLTAGE RANGE	ENABLE OPTION	MOUNT CONFIGURATION*
<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	15	B = open frame	1 = Single	1 = 5V	1.0A = 100	05 = 4.5 - 9V	P = Pos Enable	Left Blank = Thru Hole Pins
	20	C = encapsulated	2 = Dual	2 = 12V	1.25A = 125	12 = 9 - 18V	N = Neg Enable	
	25			3 = 15V	2.0A = 200	18 = 9 - 36V	Blank = no Trim or Enable pins	S = Surface Mount open frame only
	30			4 = 24V	3.3A = 330	24 = 18 - 36V		
	40			6 = 48V	6.0A = 600	36 = 18 - 72V		
	75			7 = 3.3V	8.35A = 835	48 = 36 - 75V		
					9.0A = 900			
				15.0A = 1500				

Note: \* SMT option is not available with either Baseplate or Encapsulated units.

March 2021 / Rev4