

- Products
- Products Search
- Unit Type
- PC Board Type
- Configurable
- Programmable
- Linear
- On-Board**
- Power Module
- DC-AC Inverters
- Noise Filters
- Option Parts

Catalog

Technical Data

Discontinued Products

Safety Instructions

[Safety Instructions for Low Voltage Directive \(2014/35/EU\)](#) PDF

CC-E-SERIES

DC-DC converter 1.5~25W

CC15-E & CC25-E: To be discontinued (June 2018 last order) Recommended series : [CCG](#) or [CC-P-E](#)



Model name

C	C	3	-	05	05	S	F	-	E
Maximum output power		Nominal output voltage		Shape					
1R5: 1.5W, 3: 3W, 6: 6W, 10: 10W, 15: 15W, 25: 25W		03: 3.3V, 06: 5V, 12: 12V		F: Horizontally-mounted DIP type, R: Horizontally-mounted SMD type, S: Vertically-mounted SIP type					
Nominal input voltage		Symbol for number of outputs							
03: 3.3V, 06: 5V, 12: 12V, 24: 24V, 48: 48V		S: Single output, D: Dual outputs							
Representing series name by combination with "E" at the end									

Features

- Mounting area halved compared to existing products
- Nonuse of tantalum capacitor or aluminum electrolytic capacitor
- High accuracy of $\pm 3\%$ in output voltage (10W of lower single output)
- 5-side metal-shielded low noise design
- Lightweight design with no resin filled up

Specifications [\(catalog download\)](#)

Output nominal voltage	3.3	5	12 or 15	± 12 or ± 15
Input voltage range	5.0~48V	3.3~48V	5~48V	3.3~48V
Output voltage range	3.15 ~ 3.6	4.75~6	11.4~15	$\pm 11.4 \sim \pm 15$
Safety standards	UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(NEMKO) (Except 3.3V input type)			
Operating temperature	-40 ~ +85°C			
Withstand voltage	Between input terminal and case, between input terminal and output terminal, and between output terminal and case: 500VAC (for 1 minute)			

Product lineup (CC-E type)

Output voltage: 3.3V

Output wattage	Input voltage	Output current	DIP type	SMD type	SIP type
1.5W	5V	0.4A	CC1R5-0503SF-E	CC1R5-0503SR-E	-
	12V	0.4A	CC1R5-1203SF-E	CC1R5-1203SR-E	-
	24V	0.4A	CC1R5-2403SF-E	CC1R5-2403SR-E	-
	48V	0.4A	CC1R5-4803SF-E	CC1R5-4803SR-E	-
3W	5V	0.8A	CC3-0503SF-E	CC3-0503SR-E	CC3-0503SS-E
	12V	0.8A	CC3-1203SF-E	CC3-1203SR-E	-
	24V	0.8A	CC3-2403SF-E	CC3-2403SR-E	CC3-2403SS-E
	48V	0.8A	CC3-4803SF-E	CC3-4803SR-E	CC3-4803SS-E
6W	5V	1.2A	CC6-0503SF-E	CC6-0503SR-E	-
	12V	1.2A	CC6-1203SF-E	CC6-1203SR-E	-

Products Search

Part Number

Category

Characteristic

This product search is intended only for the Japanese market.

For products available in other markets, please access [the respective regional web site](#) or contact [your nearest sales office](#).

[Precautions against counterfeit TDK-Lambda products.](#)

Contact

EU RoHS/China RoHS

TDK Power Electronics World

	24V	1.2A	CC6-2403SF-E	CC6-2403SR-E	-
	48V	1.2A	CC6-4803SF-E	CC6-4803SR-E	-
10W	5V	2.5A	CC10-0503SF-E	CC10-0503SR-E	-
	12V	2.5A	CC10-1203SF-E	CC10-1203SR-E	-
	24V	2.5A	CC10-2403SF-E	CC10-2403SR-E	-
	48V	2.5A	CC10-4803SF-E	CC10-4803SR-E	-
15W	24V	4.5A	CC15-2403SF-E	CC15-2403SR-E	-
25W	24V	7.5A	CC25-2403SF-E	CC25-2403SR-E	-

Output voltage: 5V

Output wattage	Input voltage	Output current	DIP type	SMD type	SIP type
1.5W	3.3V	0.3A	CC1R5-0305SF-E	CC1R5-0305SR-E	-
	5V	0.3A	CC1R5-0505SF-E	CC1R5-0505SR-E	-
	12V	0.3A	CC1R5-1205SF-E	CC1R5-1205SR-E	-
	24V	0.3A	CC1R5-2405SF-E	CC1R5-2405SR-E	-
	48V	0.3A	CC1R5-4805SF-E	CC1R5-4805SR-E	-
3W	3.3V	0.6A	CC3-0305SF-E	CC3-0305SR-E	-
	5V	0.6A	CC3-0505SF-E	CC3-0505SR-E	CC3-0505SS-E
	12V	0.6A	CC3-1205SF-E	CC3-1205SR-E	CC3-1205SS-E
	24V	0.6A	CC3-2405SF-E	CC3-2405SR-E	CC3-2405SS-E
	48V	0.6A	CC3-4805SF-E	CC3-4805SR-E	CC3-4805SS-E
6W	3.3V	1A	CC6-0305SF-E	CC6-0305SR-E	-
	5V	1A	CC6-0505SF-E	CC6-0505SR-E	-
	12V	1.2A	CC6-1205SF-E	CC6-1205SR-E	-
	24V	1.2A	CC6-2405SF-E	CC6-2405SR-E	-
	48V	1.2A	CC6-4805SF-E	CC6-4805SR-E	-
10W	5V	2A	CC10-0505SF-E	CC10-0505SR-E	-
	12V	2A	CC10-1205SF-E	CC10-1205SR-E	-
	24V	2A	CC10-2405SF-E	CC10-2405SR-E	-
	48V	2A	CC10-4805SF-E	CC10-4805SR-E	-
15W	24V	3A	CC15-2405SF-E	CC15-2405SR-E	-
25W	24V	5A	CC25-2405SF-E	CC25-2405SR-E	-

Output voltage: 12V (15V)

Output wattage	Input voltage	Output current	DIP type	SMD type	SIP type
1.5W	5V	0.125A(0.1A)	CC1R5-0512SF-E	CC1R5-0512SR-E	
	12V	0.125A(0.1A)	CC1R5-1212SF-E	CC1R5-1212SR-E	
	24V	0.125A(0.1A)	CC1R5-2412SF-E	CC1R5-2412SR-E	
	48V	0.125A(0.1A)	CC1R5-4812SF-E	CC1R5-4812SR-E	
3W	5V	0.25A(0.2A)	CC3-0512SF-E	CC3-0512SR-E	CC3-0512SS-E
	12V	0.25A(0.2A)	CC3-1212SF-E	CC3-1212SR-E	CC3-1212SS-E
	24V	0.25A(0.2A)	CC3-2412SF-E	CC3-2412SR-E	CC3-2412SS-E
	48V	0.25A(0.2A)	CC3-4812SF-E	CC3-4812SR-E	-
6W	3.3V	0.4A(0.32A)	CC6-0312SF-E	CC6-0312SR-E	-
	5V	0.5A(0.4A)	CC6-0512SF-E	CC6-0512SR-E	-
	12V	0.5A(0.4A)	CC6-1212SF-E	CC6-1212SR-E	-
	24V	0.5A(0.4A)	CC6-2412SF-E	CC6-2412SR-E	-

	48V	0.5A(0.4A)	CC6-4812SF-E	CC6-4812SR-E	-
10W	5V	0.8A(0.64A)	CC10-0512SF-E	CC10-0512SR-E	-
	12V	1A(0.8A)	CC10-1212SF-E	CC10-1212SR-E	-
	24V	1A(0.8A)	CC10-2412SF-E	CC10-2412SR-E	-
	48V	1A(0.8A)	CC10-4812SF-E	CC10-4812SR-E	-

Output voltage: ±12V (±15V)

Output wattage	Input voltage	Output current	DIP type	SMD type	SIP type
1.5W	3.3V	0.06A(0.05A)	CC1R5-0312DF-E	CC1R5-0312DR-E	-
	5V	0.06A(0.05A)	CC1R5-0512DF-E	CC1R5-0512DR-E	-
	12V	0.06A(0.05A)	CC1R5-1212DF-E	CC1R5-1212DR-E	-
	24V	0.06A(0.05A)	CC1R5-2412DF-E	CC1R5-2412DR-E	-
	48V	0.06A(0.05A)	CC1R5-4812DF-E	CC1R5-4812DR-E	-
3W	3.3V	0.125A(0.1A)	CC3-0312DF-E	CC3-0312DR-E	-
	5V	0.125A(0.1A)	CC3-0512DF-E	CC3-0512DR-E	CC3-0512DS-E
	12V	0.125A(0.1A)	CC3-1212DF-E	CC3-1212DR-E	CC3-1212DS-E
	24V	0.125A(0.1A)	CC3-2412DF-E	CC3-2412DR-E	CC3-2412DS-E
	48V	0.125A(0.1A)	CC3-4812DF-E	CC3-4812DR-E	CC3-4812DS-E
6W	3.3V	0.2A(0.16A)	CC6-0312DF-E	CC6-0312DR-E	-
	5V	0.25A(0.2A)	CC6-0512DF-E	CC6-0512DR-E	-
	12V	0.25A(0.2A)	CC6-1212DF-E	CC6-1212DR-E	-
	24V	0.25A(0.2A)	CC6-2412DF-E	CC6-2412DR-E	-
	48V	0.25A(0.2A)	CC6-4812DF-E	CC6-4812DR-E	-
10W	5V	0.4A(0.32A)	CC10-0512DF-E	CC10-0512DR-E	-
	12V	0.45A(0.36A)	CC10-1212DF-E	CC10-1212DR-E	-
	24V	0.45A(0.36A)	CC10-2412DF-E	CC10-2412DR-E	-
	48V	0.45A(0.36A)	CC10-4812DF-E	CC10-4812DR-E	-

As for the mention contents of this page, understand beforehand because it sometimes changes.

[▲ Page Top](#)

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Country/Region	Language
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SOUTH AMERICA	Spanish
	Portuguese

EUROPE

Country/Region	Language
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