



TDK-Lambda Corporation



CC-E-SERIES

DC-DC converter 1.5~25W



Model name

CC	3	-	05	05	S	F	-	E		
Maximum output power 1F5: 1.5W, 3: 3W, 6:6W, 10: 10W, 15: 15W, 25: 25W			Nominal output voltage 03: 3.3V, 05: 5V, 12:12V		Shape F:Horizontally-mounted DIP type R:Horizontally-mounted SMD type FS:Vertically-mounted SIP type					
Nominal input voltage 03: 3.3V, 05:5V, 12:12V, 24:24V, 48:48V					Symbol for number of outputs 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)			
Size(W x H x D)	DIP : 16.51 × 8.5 × 16.6 / SMD : 16.51 × 8.8 × 16.6			

■ 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	CC3-1203SS-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	-
	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	-

10W	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	-
	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	CC3-4812SS-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: $\pm 12V$ ($\pm 15V$)

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.

TDK-Lambda group websites

ASIA

Country/Region	Language
JAPAN	Japanese
	English
CHINA	Chinese
KOREA	Korean

U.S.A.

Country/Region	Language
NORTH AMERICA	English(High Power)
	English(Low Power)
SOUTH AMERICA	Spanish
	Portuguese

SINGAPORE

[English](#)

**TDK-Lambda - the world's leading manufacturer of
power supply**

Copyright © TDK-Lambda Corporation All rights reserved.
TDK logo is a trademark or registered trademark of TDK Corporation.