

Compact, Low-Power DC-DC Converters

Features

- ◆ Compact Footprint / Low- Profile
- ◆ 5V, 12V, 24V & 48V Inputs
- ◆ 3.3 - 15V Single +/-12V Dual Outputs
- ◆ Output Voltage Adjustment
- ◆ Input-Output Isolation
- ◆ Integral Input Fuse
- ◆ Self contained
- ◆ Multiple Input Voltage configurations
- ◆ Five sided metal case



Key Market Segments & Applications



COMM



RoHS

Specifications

Model		3.3V	5V	12V
DC Input	-	5V: 4.5-9.0V, 12V: 9-18V, 24V: 18-36V, 48V: 36-72V		
Efficiency	-	66 to 85% model dependant		
Output Voltage Accuracy	-	±5%		
Isolation Voltage	-	500VAC 1 min. Input-Output, Input-Chassis		
Output Adjustment	-	2.84V-3.67V	4.3V-6V	12V-15V
Line Regulation	mV	20		30
Load Regulation	mV	40		100
Preload	-	No preload required		
Output Ripple	mV	120		
Overcurrent Protection	-	Output current limiting with automatic recovery.		
Overvoltage protection	-	No		
Remote On/Off	-	PC6 / PCD6 models only		
Cooling	-	Convection Cooled		
Operating Temp. Range	-	-20 to 70°C, derate linearly to 40% load from 50 to 70°C		
Storage Temperature	-	-40°C to 85°C		
Humidity (Non condensing)	-	20 - 95% RH		
Temperature Drift	mV	50		100
Isolation Resistance	-	>50M at 25°C and 70% RH 500 VDC Output-Chassis		
Shock	-	100G		
Vibration (non operating)	-	10-55-10 Hz (sweep for 15 min.) amplitude 1.5mm		
Weight	-	PC1R5 - 6g, PC3 models - 10g, PC6 models - 17g		
Size (L"x W"x H")	in	PC1R5: 1.10 x 0.63 x 0.31; PC3: 1.12 x 0.81 x 0.33; PC6: 1.61 x 1.02 x 0.33		
Warranty	yrs	2		

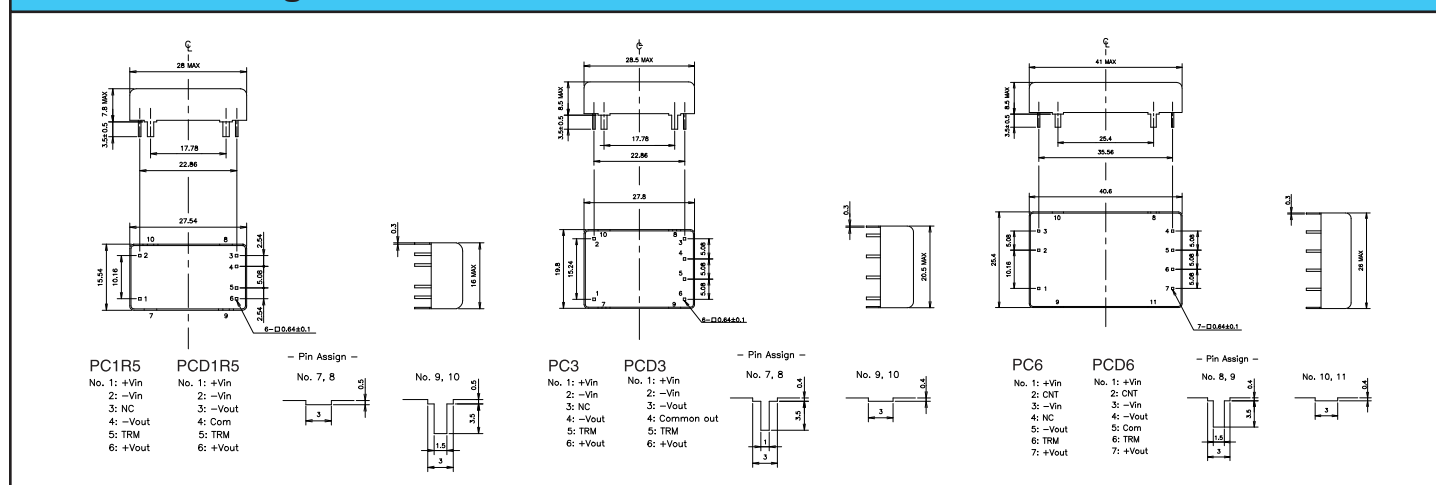
Note: See Installation Manual for full specifications, test methods of parameters and application notes.

OBSOLETE

Model Selector

	Output Voltage	Max Current (A)	Output Power (W)	5V Input	12V Input	24V Input	48V Input
Single Outputs							
	3.3	0.4	1.5	CC1R5-0503SF-E	CC1R5-1203SF-E	CC1R5-2403SF-E	CC1R5-4803SF-E
	3.3	0.8	3	CC3-0503SF-E	CC3-1203SF-E	CC3-2403SF-E	CC3-4803SF-E
	3.3	1.2	6	CC6-0503SF-E	CC6-1203SF-E	CC6-2403SF-E	CC6-4803SF-E
	3.3	2.5	10	CC10-0503SF-E	CC10-1203SF-E	CC10-2403SF-E	CC10-4803SF-E
	3.3	4.5	15	-	-	CC15-2403SF-E	-
	3.3	7.5	25	-	-	CC25-2403SF-E	-
	5	0.3	1.5	CC1R5-0505SF-E	CC1R5-1205SF-E	CC1R5-2405SF-E	CC1R5-4805SF-E
	5	0.6	3	CC3-0505SF-E	CC3-1205SF-E	CC3-2405SF-E	CC3-4805SF-E
	5	1.0	5	CC6-0505SF-E	-	-	-
	5	1.2	6	-	CC6-1205SF-E	CC6-2405SF-E	CC6-4805SF-E
	5	2.0	10	CC10-0505SF-E	CC10-1205SF-E	CC10-2405SF-E	CC10-4805SF-E
	5	3.0	15	-	-	CC15-2405SF-E	-
	5	5.0	25	-	-	CC25-2405SF-E	-
	12(15)	0.125(0.1)	1.5	CC1R5-0512SF-E	CC1R5-1212SF-E	CC1R5-2412SF-E	CC1R5-4812SF-E
	12(15)	0.25(0.2)	3	CC3-0512SF-E	CC3-1212SF-E	CC3-2412SF-E	CC3-4812SF-E
	12(15)	0.5(0.4)	6	CC6-0512SF-E	CC6-1212SF-E	CC6-2412SF-E	CC6-4812SF-E
	12(15)	0.8(0.64)	10	CC10-0512SF-E	-	-	-
	12(15)	1.0(0.8)	10	-	CC10-1212SF-E	CC10-2412SF-E	CC10-4812SF-E
Dual Outputs							
	±12 (15)3	0.06(0.05)	1.5	CC1R5-0512DF-E	CC1R5-1212DF-E	CC1R5-2412DF-E	CC1R5-4812DF-E
	±12 (15)3	0.125(0.1)	3	CC3-0512DF-E	CC3-1212DF-E	CC3-2412DF-E	CC3-4812DF-E
	±12 (15)3	0.25(0.2)	6	CC6-0512DF-E	CC6-1212DF-E	CC6-2412DF-E	CC6-4812DF-E
	±12 (15)3	0.4(0.32)	10	CC10-0512DF-E	-	-	-
	±12 (15)3	0.45(0.36)	10	-	CC10-1212DF-E	CC10-2412DF-E	CC10-4812DF-E

Outline Drawing



Pinout

Pin Description	Function
-Vin	Negative Input Terminal
+Vin	Positive Input Terminal
+V	Positive Output Terminal
-V	Negative Output Terminal
TRIM	Output adjustment Trim pin
CNT	Remote ON/OFF

Other Lambda DC-DC Products

X	10 - 20W, 24 & 48V input DC-DC converters
SX	Surface Mount 20W, 24 & 48V input DC-DC converters
PV	1.5 - 3W, Single Inline Pkg. 5V, 12V, 24V & 48V input

For Additional Information, please visit
us.tdk-lambda.com/lp/products/pc-series.htm



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TDK-Lambda:

[PC1R5-12-12](#) [PC1R5-24-3.3](#) [PC1R5-24-5](#) [PC1R5-48-12](#) [PC1R5-48-3.3](#) [PC1R5-5-12](#) [PC1R5-5-3.3](#) [PC1R5-5-5](#)
[PC3-12-12](#) [PC3-12-3.3](#) [PC3-24-5](#) [PC3-48-12](#) [PC3-48-3.3](#) [PC3-48-5](#) [PC3-5-12](#) [PC3-5-5](#) [PC6-12-12](#) [PC6-12-3.3](#)
[PC6-12-5](#) [PC6-24-12](#) [PC6-24-3.3](#) [PC6-48-12](#) [PC6-48-5](#) [PC6-5-12](#) [PC6-5-3.3](#) [PC6-5-5](#) [PCD1R5-12-1212](#)
[PCD1R5-24-1212](#) [PCD1R5-48-1212](#) [PCD3-24-1212](#) [PCD3-48-1212](#) [PCD3-5-1212](#) [PCD6-12-1212](#) [PCD6-48-1212](#)
[PCD6-5-1212](#) [PC3-24-12](#) [PC6-24-5](#) [PC3-24-3.3](#) [PCD1R5-5-1212](#) [PC1R5-12-3.3](#) [PC3-12-5](#) [PCD3-12-1212](#) [PC1R5-](#)
[48-5](#) [PCD6-24-1212](#) [PC1R5-24-12](#) [PC1R5-12-5](#) [PC6-48-3.3](#) [PC3-5-3.3](#) [PC1R5123.3](#) [PC1R5125](#) [PC1R52412](#)
[PC1R54812](#) [PC3123.3](#) [PC6483.3](#) [PC653.3](#) [PCD1R5481212](#) [PCD3481212](#)