

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		

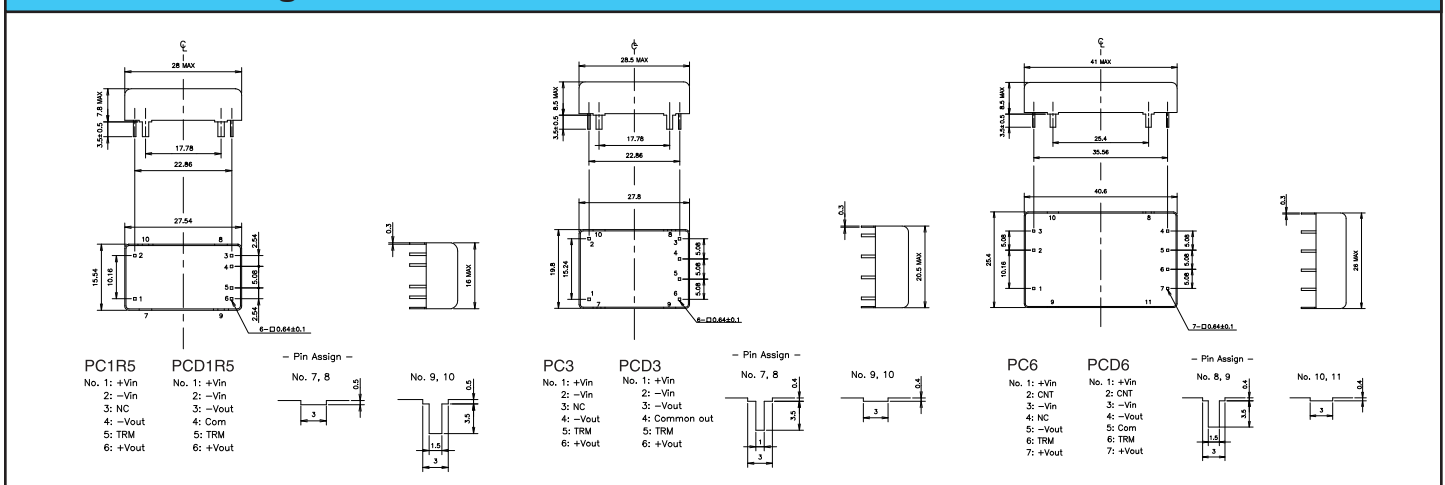
Note: See Installation Manual for full specifications, test methods of parameters and application notes.

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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



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