

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		

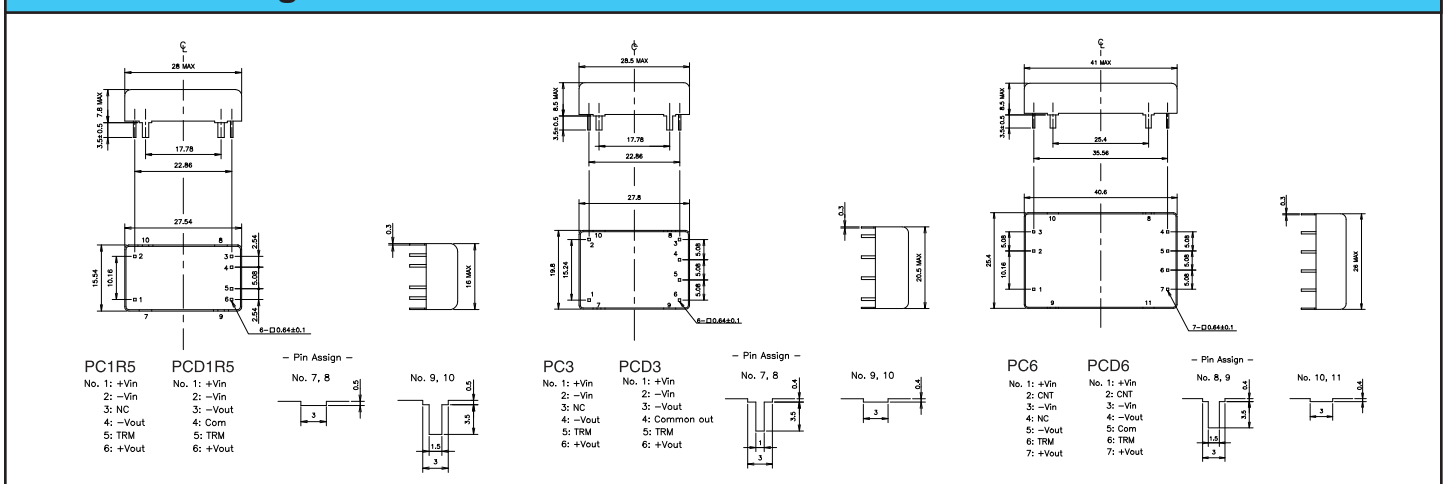
Note: See Installation Manual for full specifications, test methods of parameters and application notes.

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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	1.32	PC1R5-5-3.3	PC1R5-12-3.3	PC1R5-24-3.3	PC1R5-48-3.3
	3.3	0.6	1.98	PC3-5-3.3	PC3-12-3.3	PC3-24-3.3	PC3-48-3.3
	3.3	1.2	3.96	PC6-5-3.3	-	-	-
	3.3	1.5	4.95	-	PC6-12-3.3	PC6-24-3.3	PC6-48-3.3
	5.0	0.3	1.5	PC1R5-5-5	PC1R5-12-5	PC1R5-24-5	PC1R5-48-5
	5.0	0.6	3.0	PC3-5-5	PC3-12-5	PC3-24-5	PC3-48-5
	5.0	1.0	5.0	PC6-5-5	-	-	-
	5.0	1.2	6.0	-	PC6-12-5	PC6-24-5	PC6-48-5
	12.0	0.125	1.5	PC1R5-5-12	PC1R5-12-12	PC1R5-24-12	PC1R5-48-12
	12.0	0.25	3.0	PC3-5-12	PC3-12-12	PC3-24-12	PC3-48-12
	12.0	0.5	6.0	PC6-5-12	PC6-12-12	PC6-24-12	PC6-48-12
Dual Outputs							
	±12.0	0.06	1.44	PCD1R5-5-1212	PCD1R5-12-1212	PCD1R5-24-1212	PCD1R5-48-1212
	±12.0	0.125	3.0	PCD3-5-1212	PCD3-12-1212	PCD3-24-1212	PCD3-48-1212
	±12.0	0.25	6.0	PCD6-5-1212	PCD6-12-1212	PCD6-24-1212	PCD6-48-1212

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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Mouser Electronics

Authorized Distributor

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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](#)
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