Plug-In Power Product Selector Guide

3Q 2007

POLA™

Non-Isolated Point-of-Load Modules

V_{IN}	Description	2-3A	6-8A	10-12A	15-16A	18-22A	26-30A	50-60A
Single Positive Output								
+3.3V	T2 2nd Generation PTH	PTH04T260W	PTH04T230W	PTH04T240W	PTH04T220W			
	PTH POLA	PTH04000W	PTV03010W PTH03050L/W/Y	PTH03060W/Y	PTH03010W/Y	PTV03020W PTH03020W	PTH03030W	PTH04040W
	PTH	PTH04070W	PTH03000W					
+5V	T2 2nd Generation PTH	PTH04T260W PTH08T260W	PTH04T230W PTH08T230W	PTH04T240W PTH08T240W/F	PTH04T220W PTH08T220W		PTH05T210W	PTH08T250W
	PTH POLA	PTH08000W PTH04000W	PTH05050W/Y PTV05010W	PTH05020W	PTH05010W/Y	PTV05020W	PTH05030W	PTH04040W
	PTH	PTH04070W PTH08080W	PTH05000W					PTH08T250W
+12V	T2 2nd Generation PTH	PTH08T260W	PTH08T230W	PTH08T240W/F	PTH08T220W		PTH08T210W	PTV08T250W
	PTH POLA	PTH08000W	PTH12050L/W/Y PTV12010W/L	PTH12010L/W/Y PTH12060L/W/Y	PTV12020W/L	PTH12020L/W	PTH12030W/L	PTH12040W
	PTH	PTH08080W	PTH12000L/W					

Non-Isolated Wide-Input Modules

V_{IN}	Model	I_{OUT}	V_{OUT}
Single Positive Output			
7 V to 36 V	PTN78000W/H	1.5 A	2.5 V to 12.6 V / 12 V to 22 V
7 V to 36 V	PTN78060W/H	3 A	2.5 V to 12.6 V / 12 V to 22 V
7 V to 36 V	PTN78020W/H	6 A	2.5 V to 12.6 V / 12 V to 22 V
Single Boost Output			
2.9 V to 5.5 V	PTN04050C	1 A (12 W)	5 V to 15 V
Single Negative Output			
+2.9 V to 7 V	PTN04050A	1 A (6 W)	–3.3 V to –15 V
+7 V to 29 V	PTN78000A	1.5 A (9 W)	–3.3 V to –15 V
+9 V to 29 V	PTN78060A	3 A (15 W)	–3.3 V to –15 V
+9 V to 29 V	PTN78020A	4 A (25 W)	–3.3 V to –15 V

Non-Isolated

Model Number Description:
PTH = Horizontal Mount
PTN = Wide Input Horizontal Mount
PTV = Vertical Single-In-Line (SIP)

Model Number Suffix:
A = Positive Input, Negative Output
H = High Output Voltage Model
L = Low Output Voltage Model
W = Wide Input Voltage Range
Y = DDR/QDR Memory Termination

More Information:
power.ti.com

Isolated Miniature DC/DC Modules (*[1]Voltage when dual module is used as single output module per datasheet.)*

V_{IN}	1 W	2 W	V_{OUT} Single (V)	V_{OUT} Dual (V)	Regulated V_{OUT}
5 V	DCP0105, DCV0105		5, 12, 15	±5 V(10 V[1]), ±7 (14 V[1]), ±12 V (24 V[1]), ±15 V (30 V[1])	
	DCH0105		5, 12, 15	±5 V(10 V[1]), ±12 V (24 V[1]), ±15 V (30 V[1])	
		DCP0205	3.3, 5, 7, 9, 12, 15	±15 V (30 V[1])	
	DCR0105		3.3, 5	—	✓
12 V		DCP0212	5, 12	±15 V (30 V[1]), ±12 V (24 V[1])	
	DCR0112		3.3, 5	—	✓
		DCR0212	5	—	✓
15 V	DCP0115, DCV0115			±12 V (24 V[1]), ±15 V (30 V[1])	
		DCP0215	5, 15	—	
24 V	DCP0124, DCV0124		5	±15 V (30 V[1])	
		DCP0224	5	±5 V (10 V[1]), ±12 V (24 V[1]) ±15 V (30 V[1]), ±18 V (36 V[1])	
	DCR0124		3.3, 5	—	✓
		DCR0224	5	—	✓

Isolated DC/DC Modules

Output Power	Model	V_{IN} (V)	V_{OUT} (V)	I_{OUT} (A)
Single Output				
7 W	PT4210	36 to 75	3.3, 5, 12	0.6 to 1.5
10 W	PT4220	36 to 75	1.8, 3.3, 5, 12, 2.5, 1.5, 1.3	1.3 to 3
	PTMA401120	36 to 75	12	1
	PTMA402050	36 to 75	5	2
	PTMA403033	36 to 75	3.3	3
10 W (PoE)	PTB48540A	36 to 75	5	2
	PTB48540B	36 to 75	3.3	3
	PTB48540C	36 to 75	12	0.85
12 W	PTMA401120	36 to 75	12	1
20 W	PT4120	36 to 75	3.3, 5, 12, 15, 5.2, 1.5, 2.5	1.3 to 5
	PTB78560A	18 to 60	3.6 to 5.5	6
	PTB78560B	18 to 60	1.8 to 3.6	8
30 W	PTB78560C	18 to 60	9 to 13.2	2.5
	PTB48560A	36 to 75	3.6 to 5.5	6
	PTB48560B	36 to 75	1.8 to 3.6	8
	PTB48560C	36 to 75	9 to 13.2	2.5
50 W	PTEA404120	36 to 75	12	4
	PTEA420025	36 to 75	2.5	20
66 W	PTEA420033	36 to 75	3.3	20
72 W	PTB78520W	18 to 60	1.8 to 3.6	20
75 W	PTQA430025	36 to75	2.5	30
85 W	PTB48520W	36 to 75	1.8 to 3.6	25
100 W	PTQA430033	36 to 75	3.3	30
	PTQA420050	36 to 75	5	20
200 W	PTQB425080	36 to 75	8	25

Output Power	Model	V_{IN} (V)	V_{OUT}		Total I_{OUT} ($I_{OUT}1 + I_{OUT}2$) (A)
			$V_{OUT}1/I_{OUT}1$	$V_{OUT}2/I_{OUT}2$	
Multiple Output					
42 W	PTB48502A	36 to 75	3.3 V/10 A	1.2 V/13 A	21
65 W	PTB48510A	36 to 75	+5 V/6.5 A	–5 V/6.5 A	13
	PTB48510C	36 to 75	+15 V/2.15 A	–15 V/2.15 A	4.30
72 W	PTB48510B	36 to 75	+12 V/3 A	–12 V/3 A	6
85 W	PTB48600A	36 to 75	+5 V/8.5 A	–5 V/8.5 A	17

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