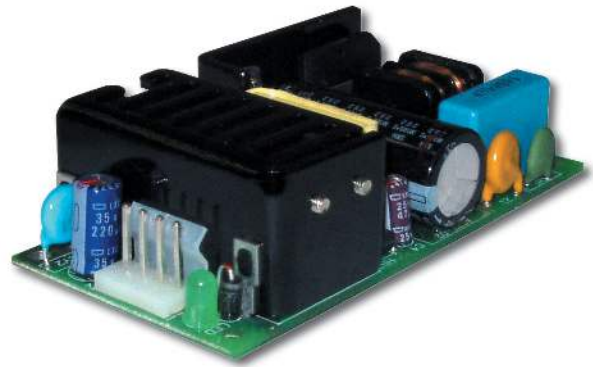


2 x 4" 40W AC-DC Power Supplies

Features

- ◆ Dual and Triple Outputs
- ◆ Wide Range AC Input
- ◆ Low profile, Industry Standard Footprint
- ◆ Global Safety Agency Compliance
- ◆ EN61000-4 Immunity
- ◆ Up to 88% efficiency



Key Market Segments & Applications



Specifications		
Model		ZPD40 ZPT40
Input Voltage range	-	90 - 264VAC (47 - 63Hz) or 120 - 370VDC*
Inrush Current (132/265VAC)	A	25 / 50 (cold start)
Input Current (115/230VAC)	A	1.6 / 1.0
Temperature Coefficient	-	±0.05%/°C
Voltage Accuracy	%	V1: ±3%, V2: ±4%, V3: ±3%
Minimum Load	A	V1: 0.4A, V2: 0.2A
Load Regulation (1)	%	V1: ±3%, V2: ±5%, V3: ±1%
Line Regulation (2)	%	V1: ±1%, V2: ±2%, V3: ±1%
Ripple & Noise (3)(4)	mV	1% or 50mV whichever is greater
Short Circuit Protection	-	Continuous - hiccup mode
Oversoltage Protection	V	Typically 110-130% of nominal
Hold Up Time (Typ)	ms	8ms at 115VAC input
LED Indicator	-	None
Operating Temperature		0 to +70°C, derate linearly to 50% load from 50°C to 70°C
Storage Temperature	-	-20 to +85°C
Humidity (non condensing)	-	10 - 95% RH
Cooling	-	Convection
Withstand Voltage		Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.
Isolation Resistance		>100M at 25C & 70%RH, Output to Ground 500VDC
Vibration (non operating)		23.52m/s ² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	-	< 196.1 m/s ² (20G)
Safety Agency Approvals	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Conducted & Radiated EMI	-	EN55022-B, FCC Class B (5)
Immunity	-	EN61000-4-2,-3,-4,-6,-8
Weight (Typ)	g (oz)	170g (6oz)
Size (WxLxH)	in	2 x 4 x 1.2 (including underside components)
Warranty	yrs	Two Year

*Safety certified for AC input only.

Notes:

- (1) ZPD, ZPT for a 60% to 100% or 100% to 60% change in load
- (2) ZPT40-3512N V2: ±3%, 100-240VAC
- (3) Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW
- (4) ZPT40-3512N, V1 & V2 100mV
- (5) May require additional external filtering to meet conducted class B EMI

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2 Output Module Codes

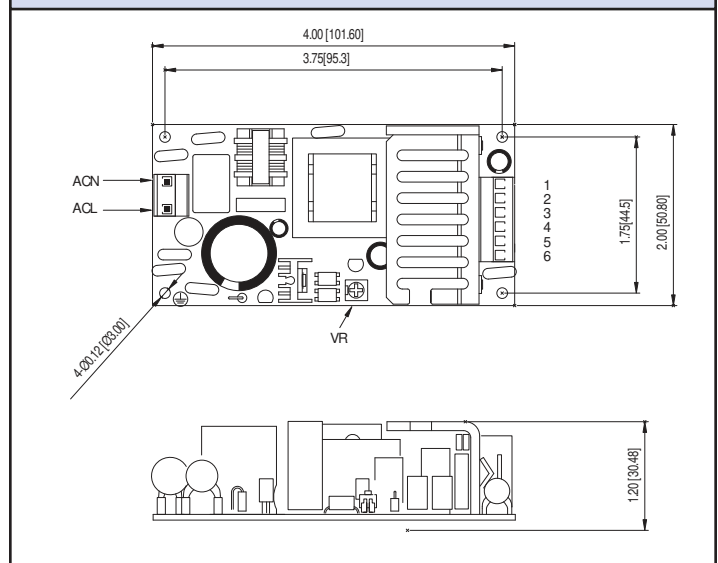
Model	O/P(V)	Max. O/P(A)	Peak (A)(5)	Output Pwr(W)	Eff. (%)	
Dual Outputs						
ZPD40-512	V1	+5.0	3.2	4.0	40.0 (6)	77
	V2	+12.0	2.0	2.5		
ZPD40-524	V1	+5.0	3.2	5.0	40.0 (6)	78
	V2	+24.0	1.0	1.5		
Triple Outputs						
ZPT40-5125N	V1	+5.0	3.2	5.0	40.5 (6)	75
	V2	+12.0	2.0	2.5		
	V3	-5.0	0.3	0.5		
ZPT40-51212N	V1	+5.0	3.2	5.0	42.6 (6)	75
	V2	+12.0	2.0	2.5		
	V3	-12.0	0.3	0.5		
ZPT40-51515N	V1	+5.0	3.2	4.5	42.0 (6)	75
	V2	+15.0	1.5	2.3		
	V3	-15.0	0.3	0.5		
ZPT40-52412N	V1	+5.0	3.2	5.0	42.6 (6)	75
	V2	+24.0	1.0	1.5		
	V3	-12.0	0.3	0.5		
ZPT40-5245N	V1	+5.0	3.2	5.0	40.5 (6)	75
	V2	+24.0	1.0	1.5		
	V3	-5.0	0.3	0.5		
ZPT40-52412P	V1	+5.0	3.2	5.0	42.6 (6)	75
	V2	+24.0	1.0	1.5		
	V3	+12.0	0.3	0.5		
ZPT40-3512N	V1	+3.3	5.0	7.0	30.0	70
	V2	+5.0	2.0	3.5		
	V3	-12.0	0.3	0.5		

Note: (5) Average not to exceed max power, <30s, 10% duty cycle
 (6) 50W with 30CFM forced air cooling, derate linearly to 35W from 50°C to 70°C

Other Industrial Products

SC40/60	40 to 80W, 3x5", 1 - 3 outputs
NV175	175W, 3x5", 1-5 outputs
ZWS	5 to 240W, single output

ZPD/ZPT Outline Drawing



Pin Connection (ZPD/ZPT)

PIN	Function
1	V2
2	V1
3	V1
4	COM
5	COM
6	V3

For additional information, please visit
<https://product.tdk.com/en/power/>



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