



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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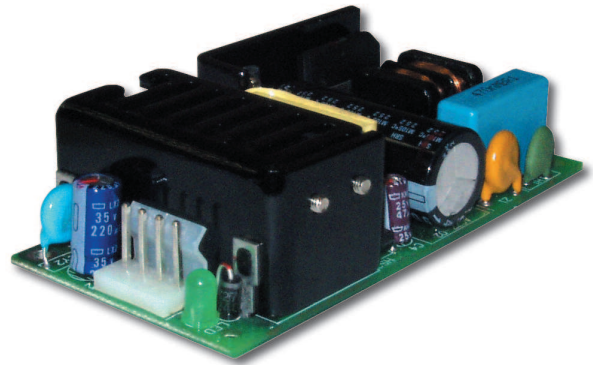
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



2 x 4" 40W to 60W AC-DC Power Supplies

Features

- ◆ Single and Multiple 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		ZPS40	ZPS60	ZPD40	ZPT40
Input Voltage range	-	90 - 264VAC (47 - 440Hz) 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	%	±1%		V1: ±3%, V2: ±4%, V3: ±3%	
Minimum Load	A	None		V1: 0.4A, V2: 0.2A	
Load Regulation (1)	%	±1%		V1: ±3%, V2: ±5%, V3: ±1%	
Line Regulation (2)	%	±0.5%		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	-	Green LED = OK		None	
Operating Temperature (5)	-	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	-	UL60950, CSA60950, EN60950, CE Mark (LVD)			
Conducted & Radiated EMI	-	EN55022-B, FCC Class B			
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			

Notes:

- (1) ZPD, ZPT for a 60% to 100% or 100% to 60% change in load
- (2) ZPT40-3512N V2: ±3%, ZPS/ZPD40: 100-240VAC
- (3) Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW
- (4) ZPT40-3512N, V1 & V2 100mV
- (5) ZPS40 (3.3V to 9V models), ZPS60 (3.3V to 12V models) derate linearly to 25% load from 40°C to 70°C

**ZPS40, 60 Not Recommended
For New Designs - See ZPSA Series**

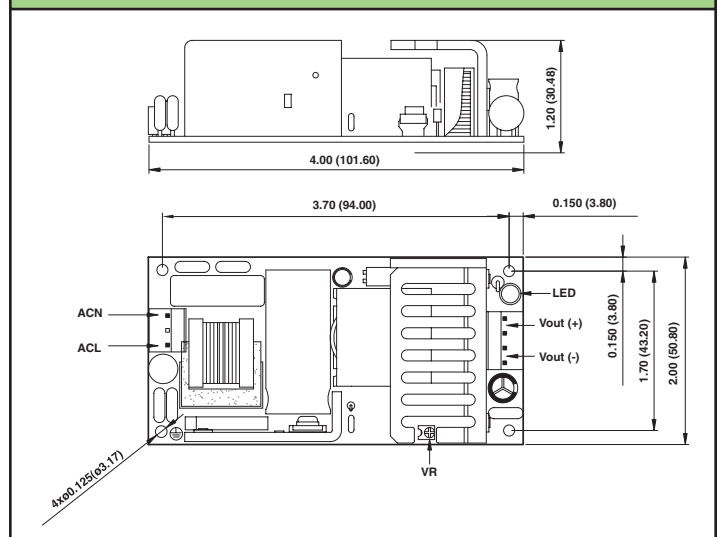
2 Output Module Codes

Model	O/P(V)	Max. O/P(A)	Peak (A)(6)	Output Pwr(W)	Eff. (%)	
Single Output						
ZPS40-3R3	V1	3.3	6.0	7.2	20.0	74
ZPS60-3R3	V1	3.3	8.0	8.5	26.0	74
ZPS40-5	V1	5.0	6.0	7.2	30.0	78
ZPS60-5	V1	5.0	8.0	9.0	40.0	78
ZPS40-9	V1	9.0	4.45	5.34	40.0	82
ZPS60-9	V1	9.0	6.67	8.0	60.0	82
ZPS40-12	V1	12.0	3.34	4.0	40.0	84
ZPS60-12	V1	12.0	5.0	6.0	60.0	84
ZPS40-15	V1	15.0	2.67	3.2	40.0	85
ZPS60-15	V1	15.0	4.0	4.8	60.0	85
ZPS40-24	V1	24.0	1.67	2.0	40.0	86
ZPS60-24	V1	24.0	2.5	3.0	60.0	86
ZPS40-30	V1	30.0	1.33	1.6	40.0	86
ZPS60-30	V1	30.0	2.0	2.4	60.0	86
ZPS40-36	V1	36.0	1.11	1.33	40.0	87
ZPS60-36	V1	36.0	1.67	2.0	60.0	87
ZPS40-48	V1	48.0	0.834	1.0	40.0	88
ZPS60-48	V1	48.0	1.25	1.5	60.0	88
Dual Outputs						
ZPD40-512	V1	+5.0	3.2	5.0	40.0 (7)	77
	V2	+12.0	2.0	2.5		
ZPD40-524	V1	+5.0	3.2	5.0	40.0 (7)	78
	V2	+24.0	1.0	1.5		
Triple Outputs						
ZPT40-5125N	V1	+5.0	3.2	5.0	40.5 (7)	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 (7)	75
	V2	+12.0	2.0	2.5		
	V3	-12.0	0.3	0.5		
ZPT40-51515N	V1	+5.0	3.2	5.0	42.0 (7)	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 (7)	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 (7)	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 (7)	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		

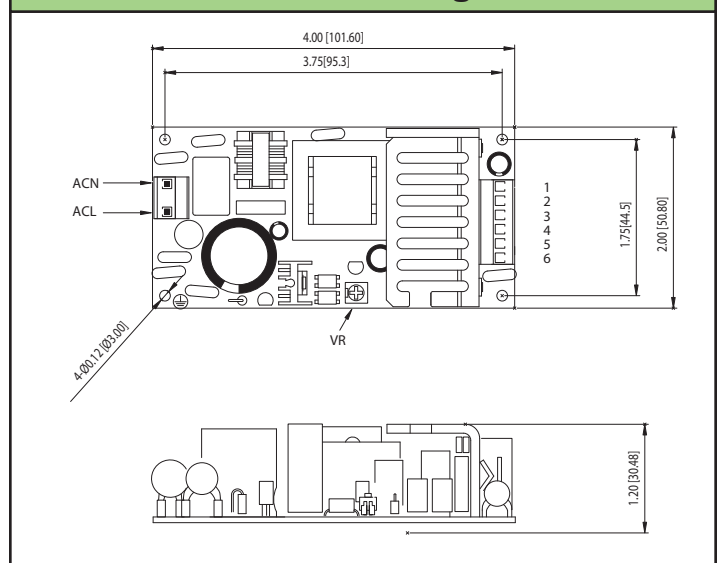
Other Industrial Products

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

ZPS Outline Drawing



ZPD/ZPT Outline Drawing



Pin Connection (ZPD/ZPT)

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

Note: (6) Average not to exceed max power, <30s, 10% duty cycle
 (7) 50W with 30CFM forced air cooling, derate linearly to 35W from 50°C to 70°C

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

