



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



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

### Features

- ◆ Single Output
- ◆ Wide Range AC Input
- ◆ Low 1.07" profile
- ◆ Industry Standard Footprint
- ◆ Global Safety Agency Compliance
- ◆ Up to 88% efficiency



### Key Market Segments & Applications



Specifications			
Model		ZPSA40	ZPSA60
Input Voltage range	-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC*	
Inrush Current (115 / 230VAC)	A	25 / 50	
Input Current	A	< 1.2A	< 1.4A
Leakage Current	mA	0.8mA maximum (264VAC, 60Hz)	
Temperature Coefficient	-	±0.05%/°C	
Voltage Accuracy	%	±1%	
Minimum Load	-	None	
Load Regulation	%	±1%	
Line Regulation	%	±0.5%	
Ripple & Noise	mV	1% or 50mV whichever is greater	
Short Circuit Protection	-	Continuous - hiccup mode	
Overvoltage Protection	V	Typically 110-130% of nominal	
Hold Up Time (Typ)	ms	8ms at 115VAC input	
LED Indicator	-	Green LED = OK	
Operating Temperature	°C	0 to +70°C derate according to charts on page 2	
Storage Temperature	°C	-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 <sup>2</sup> (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)	
Shock	-	< 196.1 m/s <sup>2</sup> (20G)	
Safety Agency Certification	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark	
Conducted & Radiated EMI	-	EN55022-B, FCC Class B	
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11	
Weight (Typ)	g	130	
Size (WxLxH)	in	2 x 4 x 1.07 (including underside components)	
Warranty	yrs	Two Years	

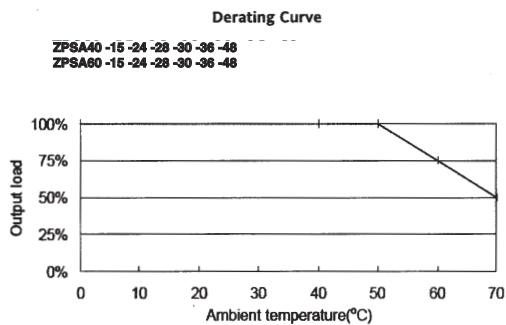
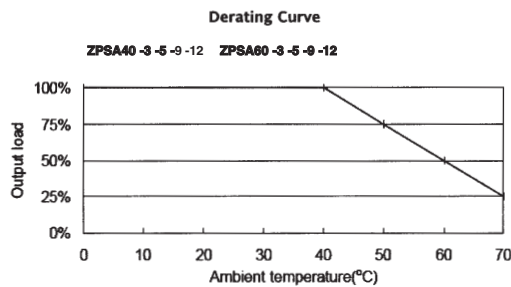
\*Safety certified for 47-63Hz input only

## Model Selector

Model	Output (V)	Adjustment Range (V)	Maximum Output (A)	Peak Load (A)(4)	Output Power (W)	Efficiency (%)
ZPSA40-3R3	3.3	-	6.0	7.2	20	74
ZPSA60-3R3	3.3	-	8.0	8.5	26	74
ZPSA40-5	5	-	6.0	7.2	30	79
ZPSA60-5	5	-	8.0	9.0	40	79
ZPSA40-9	9	-	4.45	5.34	40	83
ZPSA60-9	9	-	6.67	8.0	60	83
ZPSA40-12	12	-	3.34	4.0	40	85
ZPSA60-12	12	-	5.0	6.0	60	85
ZPSA40-15	15	-	2.67	3.2	40	85
ZPSA60-15	15	-	4.0	4.8	60	85
ZPSA40-24	24	-	1.67	2.0	40	86
ZPSA60-24	24	-	2.5	3.0	60	86
ZPSA40-28	28	-	1.43	1.7	40	86
ZPSA60-28	28	-	2.14	2.6	60	86
ZPSA40-30	30	-	1.33	1.6	40	86
ZPSA60-30	30	-	2.0	2.4	60	86
ZPSA40-36	36	-	1.11	1.33	40	87
ZPSA60-36	36	-	1.67	2.0	60	86
ZPSA40-48	48	-	0.834	1.0	40	87
ZPSA60-48	48	-	1.25	1.5	60	87

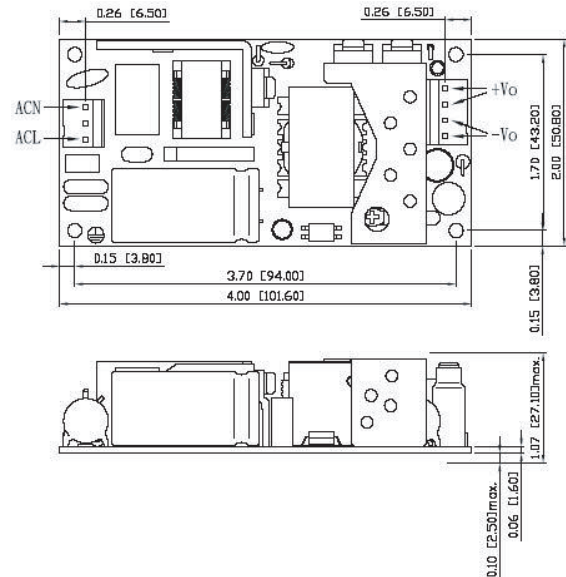
(4) Average not to exceed max power, <30s, 10% duty cycle

## Derating Curve



## Outline Drawings

All Dimensions are in inches[mm]  
Tolerances : XX±.02[.XX±.5] unless otherwise noted



## Other Industrial Products

SC40/60	40 to 80W, 3x5", 1 - 3 outputs
NV175	175W, 3x5", 1-5 outputs
ZWS	5 to 240W, single output
KPSA	5 to 15W, pcb mount
ZPD, ZPT	40W, 2x4" dual and triple outputs

## Options

Suffix	Description
Blank	Molex connectors
/P	PCB mount pins

For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/zpsa-series.htm](http://us.tdk-lambda.com/lp/products/zpsa-series.htm)

