ZPSA100 Series



3" x 5" 100W AC-DC Power Supplies

◆ PFC

RoHS

- ◆ Wide Range AC Input
- ◆ Low Profile, Industry Standard Footprint
- ◆ Global Safety Agency Compliance
- ◆ RoHS Compliant

Key Market Segments & Applications

Video/Audio Routers Point of Sale Datacom

Test and Measurement

LED Information Display

Features and Benefits

Feature ◆ Industry Standard Footprint

- ◆ Up to 90% efficiency
- Broad Product Range
- ◆ Meets EN61000-4 Immunity

- ◆ Available to Second Source
- Less System Heating
- Optimization of Power Supply to System
- **♦** Greater Reliability

Benefit

Specifications						
		ZPSA100				
ITEMS						
Input Voltage range -		90 - 264VAC (47 - 440Hz) or 120 - 370VDC				
Inrush Current A		25 / 50 (cold start)				
Input Current (115/230VAC) A		1.1 / 0.6				
Temperature Coefficient -		±0.05%/°C				
Voltage Accuracy -		±1%				
Minimum Load A		None				
Load Regulation	-	±1%				
Line Regulation	-	±0.5%				
Ripple & Noise (1)	mV	5V: 2%, others 1%				
Short Circuit Protection	-	Foldback				
Overvoltage Protection	V	Typically 110-130% of nominal, auto recovery				
Hold Up Time (Typ)	ms	16ms at 115VAC input				
LED Indicator	-	Green LED = OK				
Operating Temperature	°C	0 to +70°C with derating/air flow				
Storage Temperature	°C	-20 to +85				
Humidity (non condensing) -		10 - 95% RH				
Cooling -		Convection/air flow				
Withstand Voltage -		Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.				
Isolation Resistance						
Vibration (non operating)	-	23.52m/s ² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)				
Shock	-	< 196.1 m/s² (20G)				
Safety Agency Certifications	-	UL/CSA/EN60950-1 (2nd Ed) Class I , CE Mark (LVD)				
Conducted & Radiated EMI	-	EN55022-B, FCC Class B				
Immunity	-	EN61000-4-2,-3,-4,-6,-8				
Weight (Typ)	g	385				
Size (WxLxH)	in(mm)	3 x 5 x 1.05 in. (76.2 x 127 x 26.6 mm) including underside components				
Warranty	-	2 Years				

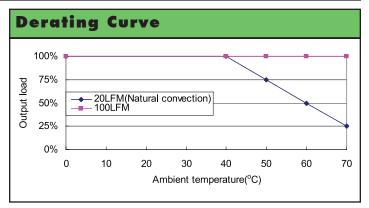
^{(1) 5}V measured with 0.1uF ceramic & 220uF electrolytic at 20MHz BW, all other models measured with 0.1uF & 10uF ceramic electrolytic at 20MHz BW.



ZPSA100 Series

Model Selector									
Model	Output Voltage (V)	Maximum Load (A)	Minimum Load (A)	Ripple and Noise	Voltage Accuracy	Line Regulation	Load Regulation		
ZPSA100-5	5V	20A	0A	2%	± 1%	± 0.5%	± 1%		
ZPSA100-9	9V	11.2A	0A	1%	± 1%	$\pm~0.5\%$	± 1%		
ZPSA100-12	12V	8.4A	0A	1%	± 1%	$\pm~0.5\%$	± 1%		
ZPSA100-15	15V	6.7A	0A	1%	± 1%	$\pm~0.5\%$	± 1%		
ZPSA100-18	18V	5.6A	0A	1%	± 1%	$\pm~0.5\%$	± 1%		
ZPSA100-24	24V	4.2A	0A	1%	± 1%	$\pm~0.5\%$	± 1%		
ZPSA100-48	48V	2.1A	0A	1%	± 1%	± 0.5%	± 1%		

5.00 [127.00] 4.55 [115.60] 0.22 [5.70] Remote Sense Notes: All dimensions are in inches (mm) Tolerances: XX±.02 (XX±.5) unless otherwise noted



Input Connector Mates with Molex Housing 09-50-3031 and Molex 2478 Series Crimp Terminal

Output Connector Mates with Molex Housing 09-50-1081 and Molex 5194 Series Crimp Terminal

Sense Connector Mates with Molex Housing 22-01-1022 and Molex 2759 or 5159 Crimp Terminal

Pin	Assignments
PIN	Function
1	Vout (+)
2	Vout (+)
3	Vout (+)
4	Vout (+)
5	Vout (–)
6	Vout (–)
7	Vout (–)
8	Vout (–)

Other Industrial Products				
KPSA	5 - 15W pcb mount			
KM	15 - 40W pcb mount medical			
ZPSA/ZPD/ZPT	40 - 60W, single, dual and triple output			
ZWS	5 - 240W single output			

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