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 Benefit

- ◆ Industry Standard Footprint
- ♦ Up to 84% efficiency
- Broad Product Range
- ◆ Meets EN61000-4 Immunity

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

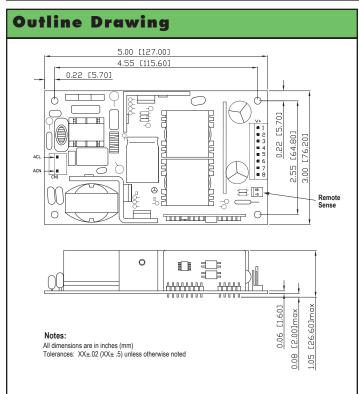
Specifications							
		ZPSA100					
ITEMS							
Input Voltage range -		90 - 264VAC (47 - 440Hz) or 120 - 370VDC					
Inrush Current	Α	25 / 50 (cold start)					
Input Current (115/230VAC) A		1.1 / 0.6					
Temperature Coefficient	-	±0.05%/°C					
Voltage Accuracy -		±1%					
Minimum Load	Α	None					
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	-	>100M at 25C & 70%RH, Output to Ground 500VDC					
Vibration (non operating)	-	00.50 /2/10 5511 1 1 1 1 1 1 1 1					
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					
lmmunity	-	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					

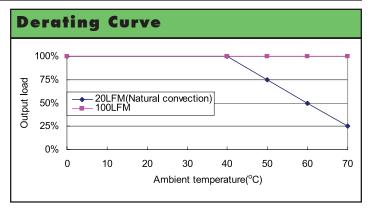
^{(1) 5}V measured with 0.1uF ceramic & 220uF electrolytic at 20MHz BW, all other models measured with 0.1uF & 10uF ceramic electrolytic at 20MHz BW.



ZPSA100 Series

Model Selector								
Model	Output Voltage (V)	Maximum Load (A)	Efficiency (%)	Ripple and Noise	Voltage Accuracy	Line Regulation	Load Regulation	
ZPSA100-5	5V	20A	83%	2%	± 1%	± 0.5%	± 1%	
ZPSA100-9	9V	11.2A	84%	1%	± 1%	$\pm~0.5\%$	± 1%	
ZPSA100-12	12V	8.4A	84%	1%	± 1%	$\pm~0.5\%$	± 1%	
ZPSA100-15	15V	6.7A	84%	1%	± 1%	$\pm~0.5\%$	± 1%	
ZPSA100-18	18V	5.6A	84%	1%	± 1%	$\pm~0.5\%$	± 1%	
ZPSA100-24	24V	4.2A	84%	1%	± 1%	$\pm~0.5\%$	± 1%	
ZPSA100-48	48V	2.1A	84%	1%	± 1%	± 0.5%	± 1%	





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