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

Features

- ◆ PFC
- ◆ Wide Range AC Input
- ◆ Low Profile, Industry Standard Footprint
- Global Safety Agency Compliance
- ◆ RoHS Compliant
- ◆ Up to 84% efficiency
- ◆ Meets EN61000-4 Immunity





Key Market Segments & Applications







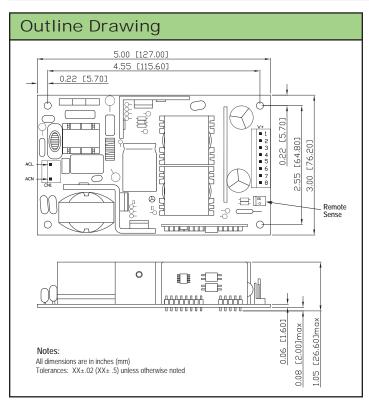


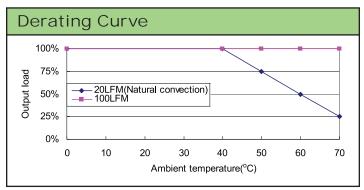
Specifications					
Model		ZPSA100			
Input Voltage range	-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC*			
Inrush Current	A	25 / 50 (cold start)			
Input Current (115/230VAC)	Α	1.1 / 0.6			
Temperature Coefficient	-	±0.05%/°C			
Voltage Accuracy	-	±1%			
Minimum Load	A	None			
Load Regulation	-	±1%			
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	-	>100M at 25°C & 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 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	vrs	2 Years			

5V measured with 0.1uF ceramic & 220uF electrolytic at 20MHz BW, all other models measured with 0.1uF & 10uF ceramic electrolytic at 20MHz BW

^{*}Safety certified for 47-63Hz input only

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%	± 0.5%	± 1%
ZPSA100-12	12V	8.4A	84%	1%	± 1%	± 0.5%	± 1%
ZPSA100-15	15V	6.7A	84%	1%	± 1%	± 0.5%	± 1%
ZPSA100-18	18V	5.6A	84%	1%	± 1%	± 0.5%	± 1%
ZPSA100-24	24V	4.2A	84%	1%	± 1%	± 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

