# **ZPSA20** Series



## 2 x 3.5" 20W AC-DC Power Supplies

◆ Wide Range AC Input



- ◆ Low profile, Industry Standard Footprint
- ◆ Global Safety Agency Compliance

### Key Market Segments & Applications

Video/Audio Routers Datacom Point of Sale Test and Measurement

#### **Features and Benefits**

## Feature Benefit

- ◆ Industry standard footprint
- ◆ Wide Range AC Input
- Class B conducted EMI

- ◆ Availability to second source
- ◆ Global Operation
- ◆ Reduced system filtering required

Specifications						
		ZPSA20				
ITEMS						
Input Voltage range (1)	-	85 - 264VAC (47 - 440Hz) or 120 - 370VDC				
Inrush Current	Α	40A maximum at 240VAC input, 25°C ambient cold start				
Input Current (115/230VAC)	Α	0.25 / 0.12				
Leakage Current	mA	0.6mA maximum (264VAC, 60Hz)				
Hold Up Time (Typ)	ms	8ms at 115VAC input				
Temperature Coefficient	-	±0.05%/°C				
Voltage Accuracy	-	±1%				
Adjustment Range	-	None				
Minimum Load	Α	None				
Load Regulation	-	±1% (10 - 100% load change)				
Line Regulation	-	±0.5% (100 - 240VAC line change)				
Ripple & Noise (2)	mV	1% or 50mV whichever is greater				
Short Circuit Protection	-	Continuous - hiccup mode				
Overvoltage Protection	V	110 - 130% of nominal (Zener clamp)				
Efficiency	%	82% typical				
LED Indicator	-	Green LED = OK				
Operating Temperature	-	0 to +70°C derate linearly to 37.5% load from 45 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/s² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)				
Shock	-	< 196.1 m/s² (20G)				
Safety Agency Certification	-	UL60950-1, CSA60950-1 (cUL), EN60950-1, CE Mark				
Conducted & Radiated EMI	-	EN55022-B, FCC Class B				
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8				
Weight (Typ)	g	100g				
Size (WxLxH)	mm	2 x 3.5 x 0.79 (including underside components)				
Warranty	yr	One Year				

<sup>(1)</sup> Safety certified for 47 - 63Hz input only

<sup>(2)</sup> Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW



# **ZPSA20** Series

Model Se	ector		
Model	Output (V)	Maximum Output (A)	Peak Load(A) (3)
ZPSA20-3R3 ZPSA20-5 ZPSA20-9 ZPSA20-12 ZPSA20-15 ZPSA20-24	3.3 5 9 12 15 24	4.4 4.4 2.45 1.8 1.4 0.92	6.6 6.6 4.0 2.7 2.1 1.4

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

Optio	ns	
Suffix	Description	
Blank /P	Molex connectors PCB mount pins	

# Cther Lambda 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



