

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

Key Market Segments & Applications

Video/Audio Routers
Datacom
Point of Sale
Test and Measurement
LED Information Displays

ZPSA100 Series

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

ZPSA100 Features and Benefits

Features	Benefits
• Industry Standard Footprint	• Available to Second Source
• Up to 90% efficiency	• Less System Heating
• Broad Product Range	• Optimization of Power Supply to System
• Meets EN61000-4 Immunity	• Greater Reliability
• Low Profile	

Specifications

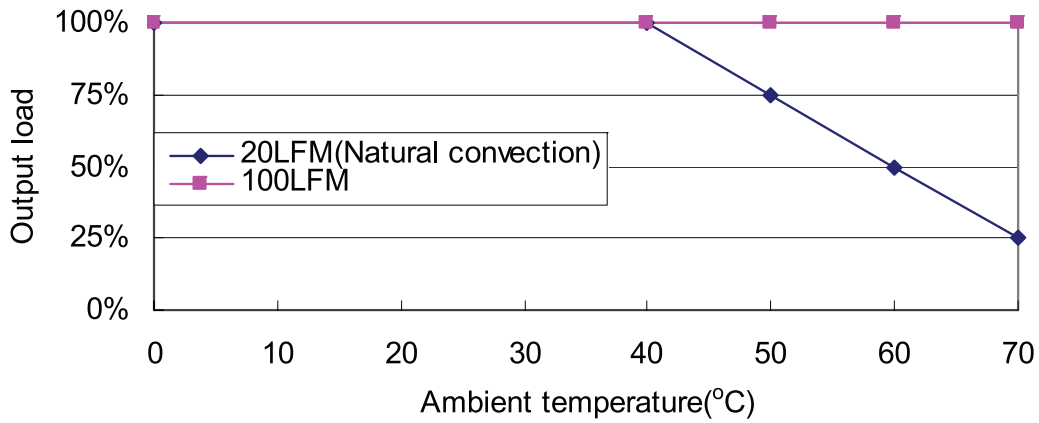
ITEMS / MODEL			ZPSA100
Input Voltage range		-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC
Inrush Current		A	25 / 50 (cold start)
Input Current (115/230VAC)		A	1.1 / 0.6
Temperature Coefficient		-	±0.05%/°C
Voltage Accuracy		-	±1%
Minimum Load		A	None
Load Regulation		-	±1%
Line Regulation		-	±0.5%
Ripple & Noise	(1)	mV	1% (for 5V, 2% or 50mV whichever is greater)
Short Circuit Protection		-	Foldback
Overvoltage Protection		V	Typically 110-130% of nominal, auto recovery
Hold Up Time (Typ)		ms	16ms at 115VAC input
Operating Temperature		°C	0 to +70°C with derating/air flow
Storage Temperature		°C	-20 to +85°C
Humidity (non condensing)		-	10 - 95% RH
Cooling	(2)	-	Convection/air flow
Withstand Voltage			Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.
Isolation Resistance			>100MΩ at 25°C & 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 Approvals		-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Conducted & Radiated EMI		-	EN55022-B, FCC Class B
Immunity		-	EN61000-4-2,-3,-4,-6,-8
Weight (Typ)		g	385
Size (WxLxH)		mm	127 X 76.2 X 26.6 (including underside components)
Warranty		yrs	2

Notes:
(1) 5V measured with 0.1μF ceramic & 220μF electrolytic at 20MHz BW, all other models measured with 0.1μF & 10uF ceramic electrolytic at 20MHz BW.
(2) 70°C operating with 100LFM air flow.

Model Selector

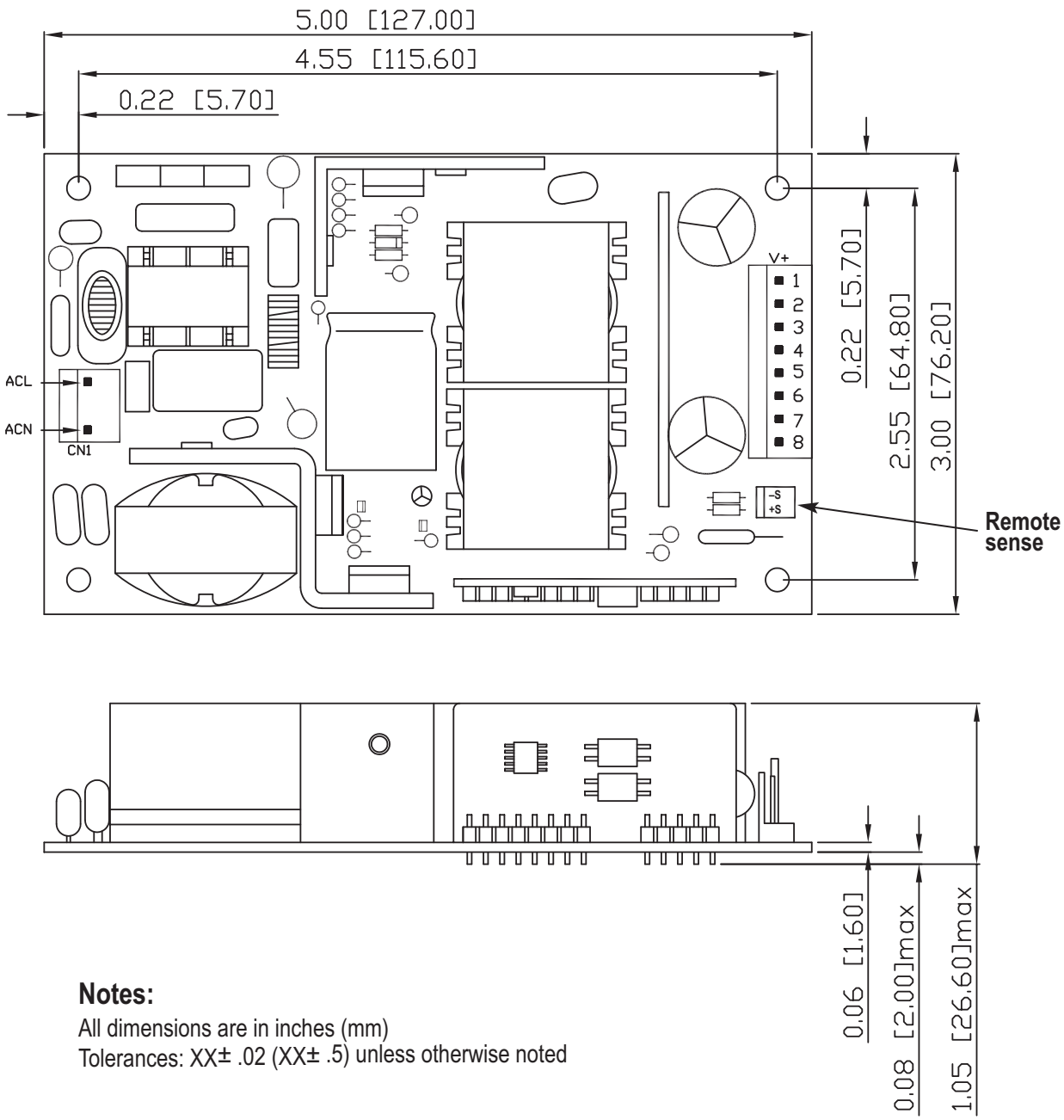
Model	Output Voltage (V)	Maximum Load (A)	Minimum Load (A)	Ripple and Noise	Voltage Accuracy	Line Regulation	Load Regulation
ZPSA100-5	5V	20A	0A	2%	+/- 1%	+/- 0.5%	+/- 1%
ZPSA100-9	9V	11.2A	0A	1%	+/- 1%	+/- 0.5%	+/- 1%
ZPSA100-12	12V	8.4A	0A	1%	+/- 1%	+/- 0.5%	+/- 1%
ZPSA100-15	15V	6.7A	0A	1%	+/- 1%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

Derating Curve ZPSA100 Series



INTERMEDIATE VOLTAGES AVAILABLE
PLEASE CONSULT SALES

Outline Drawing ZPSA100 Series



Notes:
All dimensions are in inches (mm)
Tolerances: XX± .02 (XX± .5) unless otherwise noted

PIN Assignments

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

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



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