

- 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 & Measurement
LED Signs and Lighting

ZPS100 Series

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

ZPS100 Features and Benefits

Features	Benefits
• Industry Standard Footprint	• Available to second source
• Up to 85% efficiency	• Less system heating
• Broad product range	• Optimisation of power supply to system
• Meets EN61000-4 immunity	• Greater reliability

Specifications

ITEMS / MODEL		ZPS100
Input Voltage range	-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC
Inrush Current (132/264VAC)	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% or 50mV whichever is greater
Short Circuit Protection	-	Continuous - hiccup mode
Overvoltage Protection	V	Typically 110-130% of nominal
Hold Up Time (Typ)	ms	8ms at 115VAC input
LED Indicator	-	Green LED = OK
Operating Temperature		0 to +70°C with derating
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/s^2 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	-	< 196.1 m/s^2 (20G)
Class 1	-	UL60950, CSA60950, EN60950-1 Class 1 , CE Mark (LVD)
Conducted & Radiated EMI	-	EN55022-B, FCC Class B
Immunity	-	EN61000-4-2,-3,-4,-5,-6,-8
Weight (Typ)	g	385g
Size (WxLxH)	mm	127 X 76.2 X 34 (including underside components)
Warranty	-	2 Year

Notes: (1) Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW

Model Selector

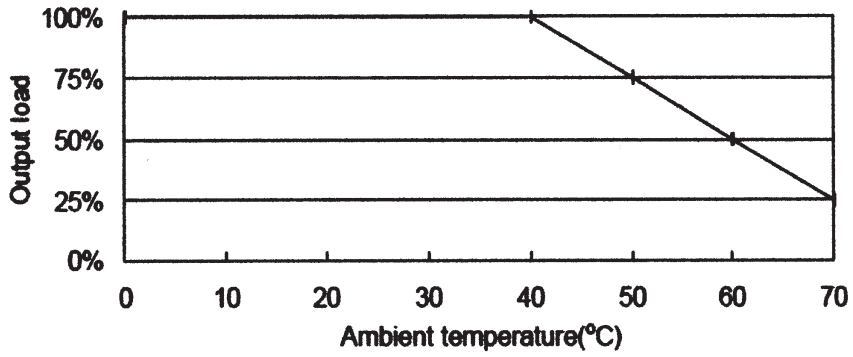
Model		Output Voltage (V)	Maximum Output (A)
ZPS100-3R3	V1	3.3	20
ZPS100-5	V1	5	20
ZPS100-9	V1	9	11.2
ZPS100-12	V1	12	8.4
ZPS100-15	V1	15	6.7
ZPS100-18	V1	18	5.6
ZPS100-24	V1	24	4.2
ZPS100-28	V1	28	3.6
ZPS100-48	V1	48	2.1

INTERMEDIATE VOLTAGES AVAILABLE
PLEASE CONSULT SALES

For full data and drawings please visit
www.emea.tdk-lambda.com/www/zp

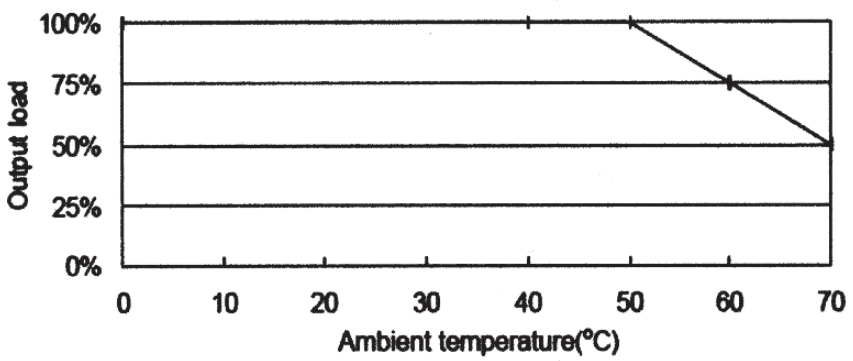
Derating Curve ZPS100 Series

ZPS100-3R3 -5 -9 -48 DERATING CURVE

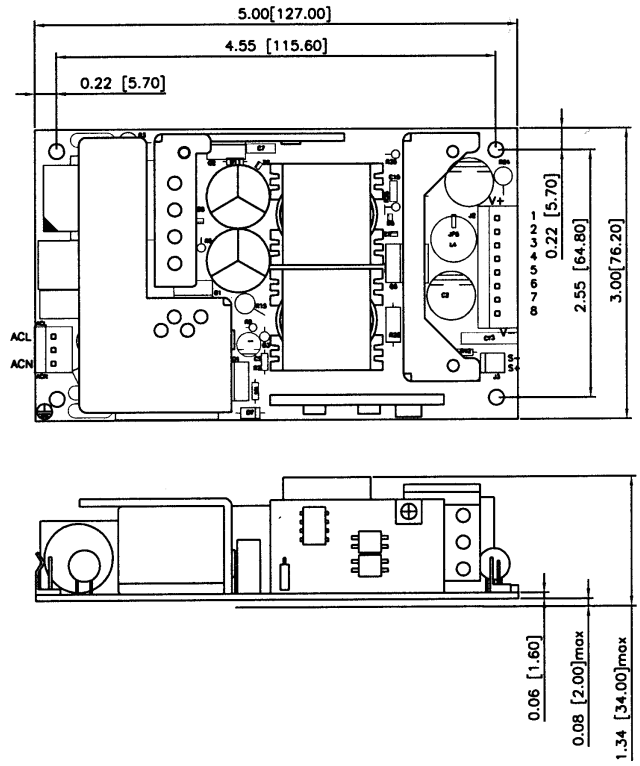


Derating Curve ZPS100 Series

ZPS100-12 -15 -18 -24 -28 DERATING CURVE

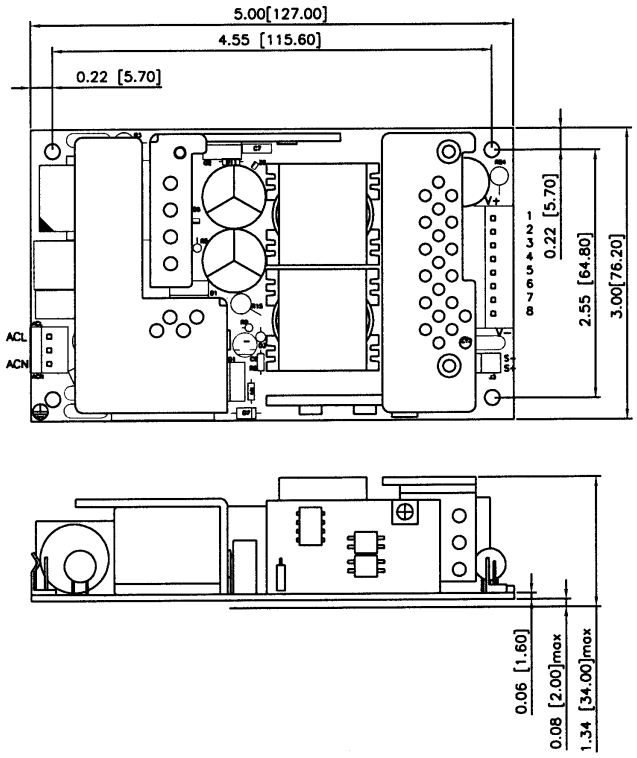


Outline Drawing ZPS100 Series



Outline Drawing ZPS100-5 Series

All Dimensions are in inches[mm]
Tolerances:.XX±.02[.XX±.5] uniess 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

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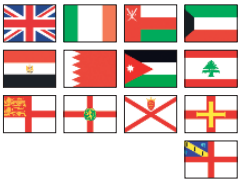
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