



- 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 Signs

## ZPSA40 & 60 Series

2" x 4" 40W to 60W  
AC-DC Power Supplies

### ZPSA40 & 60 Features and Benefits

#### Features

- Industry Standard Footprint
- Up to 88% efficiency
- Broad Product Range
- Meets EN61000-4 Immunity

#### Benefits

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

### Specifications

MODEL		ZPSA40	ZPSA60
ITEMS			
Input Voltage range	-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC	
Inrush Current (132/265VAC)	A	25 / 50	
Input Current (115/230VAC)	A	< 1.2A	< 1.4A
Leakage Current	mA	0.8mA max (264VAC, 60Hz)	
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		>100MΩ at 25C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)		23.52m/s <sup>2</sup> (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)	
Shock	-	< 196.1 m/s <sup>2</sup> (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,-5,-6,-8	
Weight (Typ)	g	130g	
Size (WxLxH)	mm	101.6 X 50.8 X 27.1 (including underside components )	
Warranty	yrs	2	

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

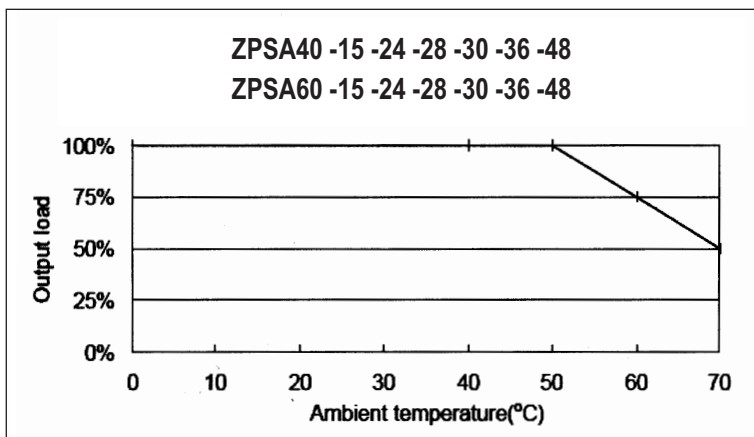
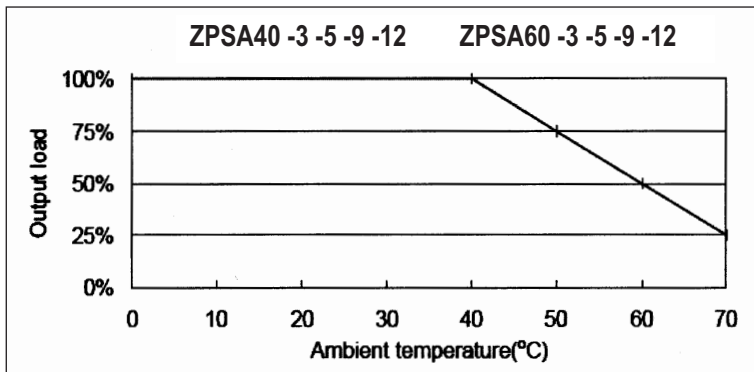
**Model Selector**

Model		Output Voltage (V)	Maximum Output (A)	Peak Load (A) (2)	Output Power (W)	Efficiency (typ)%
ZPSA40-3R3	V1	3.3	6.0	7.2	20.0	74
ZPSA60-3R3	V1	3.3	8.0	8.5	26.0	74
ZPSA40-5	V1	5.0	6.0	7.2	30.0	79
ZPSA60-5	V1	5.0	8.0	9.0	40.0	79
ZPSA40-9	V1	9.0	4.45	5.34	40.0	83
ZPSA60-9	V1	9.0	6.67	8.0	60.0	83
ZPSA40-12	V1	12.0	3.34	4.0	40.0	85
ZPSA60-12	V1	12.0	5.0	6.0	60.0	85
ZPSA40-15	V1	15.0	2.67	3.2	40.0	85
ZPSA60-15	V1	15.0	4.0	4.8	60.0	85
ZPSA40-24	V1	24.0	1.67	2.0	40.0	86
ZPSA60-24	V1	24.0	2.5	3.0	60.0	86
ZPSA40-28	V1	28.0	1.43	1.71	40.0	86
ZPSA60-28	V1	28.0	2.14	2.57	60.0	86
ZPSA40-30	V1	30.0	1.33	1.6	40.0	86
ZPSA60-30	V1	30.0	2.0	2.4	60.0	86
ZPSA40-36	V1	36.0	1.11	1.33	40.0	87
ZPSA60-36	V1	36.0	1.67	2.0	60.0	87
ZPSA40-48	V1	48.0	0.834	1.0	40.0	87
ZPSA60-48	V1	48.0	1.25	1.5	60.0	87

Notes: (2) Average not to exceed max power, <30s, 10% duty cycle

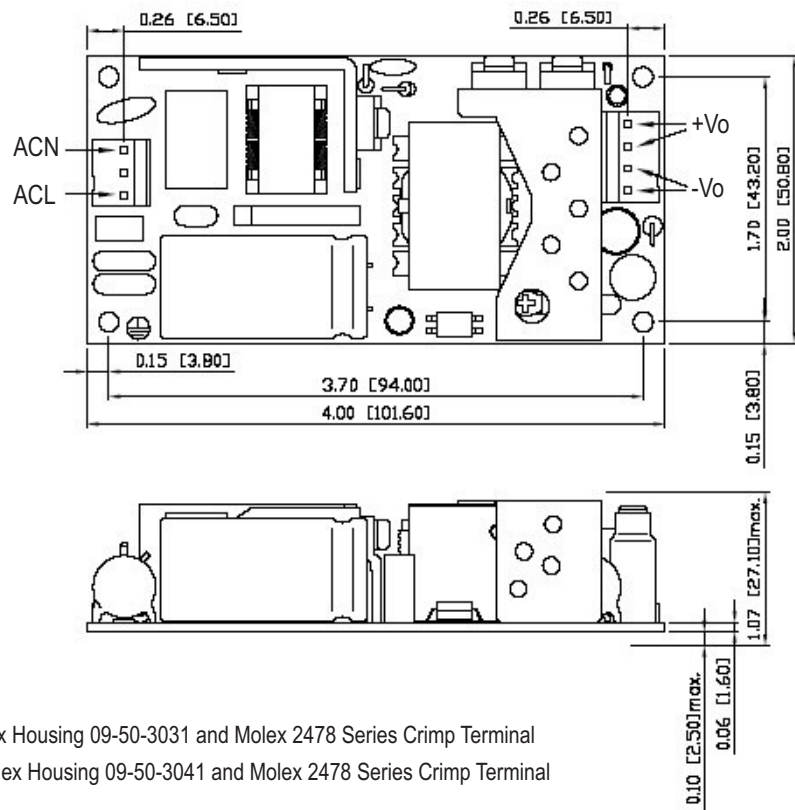
**Derating Curve ZPSA40 & 60 Series**

**INTERMEDIATE VOLTAGES AVAILABLE  
PLEASE CONSULT SALES**



**Outline Drawing ZPSA40 & 60 Series**

**Note:** All Dimensions are in inches (mm)  
 Tolerances: XX±0.2 (.XX±.5) unless otherwise noted



Options	
Suffix	Description
Blank	Molex connectors
/P	PCB mount pins



## TDK-Lambda France SAS

Tel: +33 1 60 12 71 65  
tlf.fr.powersolutions@tdk.com  
www.emea.lambda.tdk.com/fr



## Italy Sales Office

Tel: +39 02 61 29 38 63  
tlf.it.powersolutions@tdk.com  
www.emea.lambda.tdk.com/it



## Netherlands

tlf.nl.powersolutions@tdk.com  
www.emea.lambda.tdk.com/nl



## TDK-Lambda Germany GmbH

Tel: +49 7841 666 0  
tlg.powersolutions@tdk.com  
www.emea.lambda.tdk.com/de



## Austria Sales Office

Tel: +43 2256 655 84  
tlg.at.powersolutions@tdk.com  
www.emea.lambda.tdk.com/at



## Switzerland Sales Office

Tel: +41 44 850 53 53  
tlg.ch.powersolutions@tdk.com  
www.emea.lambda.tdk.com/ch



## Nordic Sales Office

Tel: +45 8853 8086  
tlg.dk.powersolutions@tdk.com  
www.emea.lambda.tdk.com/dk



## TDK-Lambda UK Ltd.

Tel: +44 (0) 12 71 85 66 66  
tlu.powersolutions@tdk.com  
www.emea.lambda.tdk.com/uk



## TDK-Lambda Ltd.

Tel: +9 723 902 4333  
tli.powersolutions@tdk.com  
www.emea.lambda.tdk.com/il-en



## TDK-Lambda Americas

Tel: +1 800-LAMBDA-4 or 1-800-526-2324  
tla.powersolutions@tdk.com  
www.us.lambda.tdk.com



## TDK Electronics do Brasil Ltda

Tel: +55 11 3289-9599  
sales.br@tdk-electronics.tdk.com  
www.tdk-electronics.tdk.com/en



## TDK-Lambda Corporation

Tel: +81-3-6778-1113  
www.jp.lambda.tdk.com



## TDK-Lambda (China) Electronics Co. Ltd.

Tel: +86 21 6485-0777  
tlc.powersolutions@tdk.com  
www.lambda.tdk.com.cn



## TDK-Lambda Singapore Pte Ltd.

Tel: +65 6251 7211  
tfs.marketing@tdk.com  
www.sg.lambda.tdk.com



## TDK India Private Limited, Power Supply Division

Tel: +91 80 4039-0660  
mathew.philip@tdk.com  
www.sg.lambda.tdk.com

