

- Single and Multiple Outputs
- 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 and Lighting

## 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

ITEMS		MODEL	ZPSA40	ZPSA60
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			>100M 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	-		UL60950-1, CSA60950-1, EN60950-1 Class I, CE Mark (LVD)	
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	-		2 Year	

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



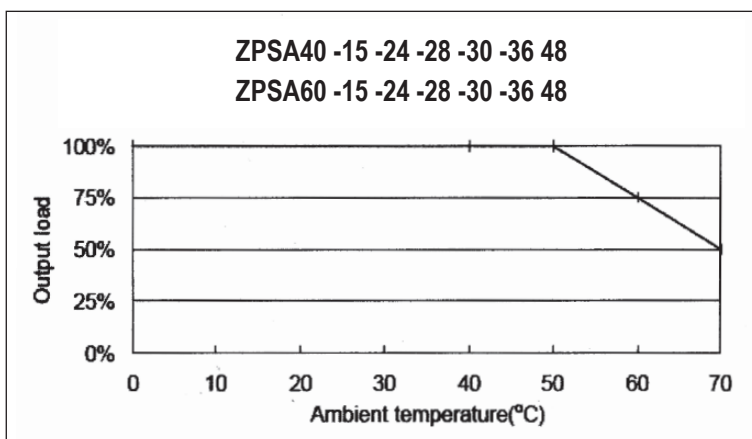
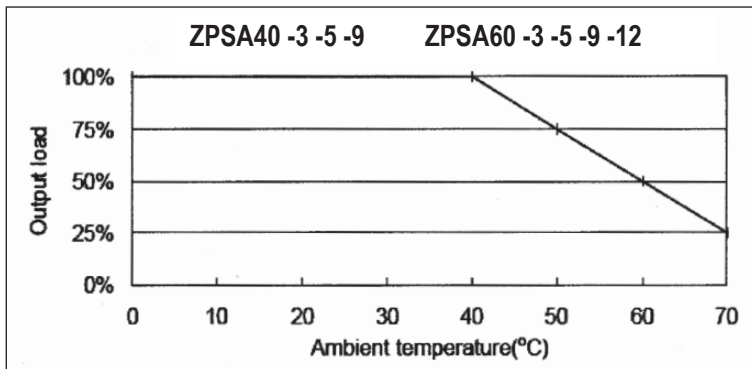
**Model Selector**

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	87
ZPSA60-30	V1	30.0	2.0	2.4	60.0	87
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	88
ZPSA60-48	V1	48.0	1.25	1.5	60.0	88

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

**Derating Curve ZPSA40 & 60 Series**

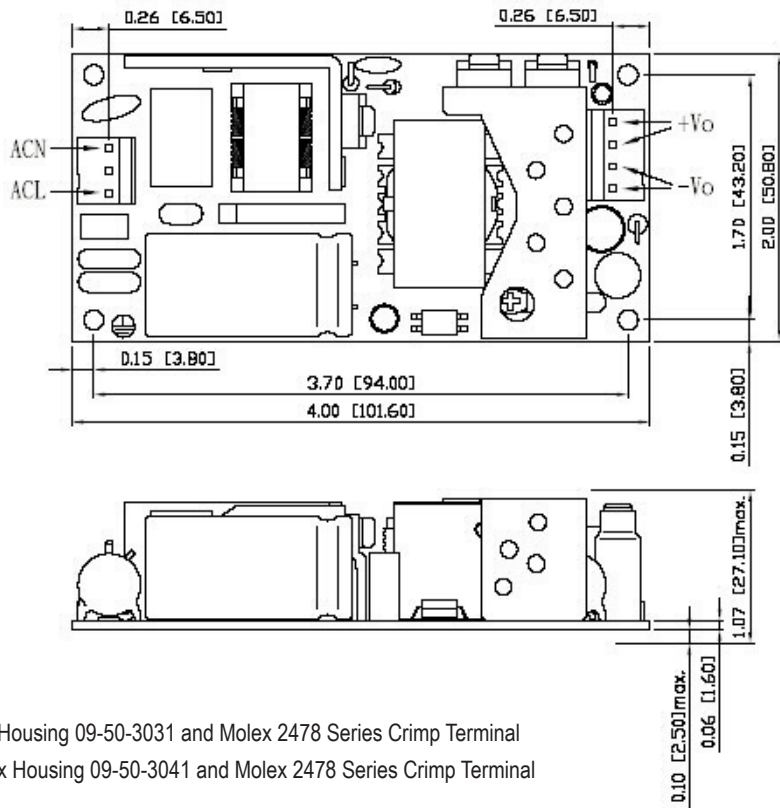
**INTERMEDIATE VOLTAGES AVAILABLE  
PLEASE CONSULT SALES**





Outline Drawing ZPSA40 & 60 Series

All Dimensions are in inches[mm]  
Tolerances : XX±.02[.XX±.5] unless otherwise noted



Input Connector Mates with Molex Housing 09-50-3031 and Molex 2478 Series Crimp Terminal  
Output Connector Mates with Molex Housing 09-50-3041 and Molex 2478 Series Crimp Terminal

Options	
Suffix	Description
Blank	Molex connectors
/P	PCB mount pins

For full data and drawings please visit  
[www.emea.tdk-lambda.com/www/zpsa](http://www.emea.tdk-lambda.com/www/zpsa)



TDK-LAMBDA EMEA

www.emea-tdk-lambda.com



**TDK-Lambda France SAS**

ZAC des Delaches  
BP 1077-Gometz-le-Chatel  
91940 Les Ulis  
France  
Tel: +33 1 60 12 71 65  
Fax: +33 1 60 12 71 66  
france@fr.tdk-lambda.com  
www.fr.tdk-lambda.com



**TDK-Lambda Italy**

Via dei Lavoratori 128/130  
20092 Cinisello Balsamo (MI)  
Italy  
Tel: +39 02 61 29 38 63  
Fax: +39 02 61 29 09 00  
info.italia@it.tdk-lambda.com  
www.it.tdk-lambda.com



**TDK-Lambda Germany GmbH**

Karl-Bold-Strasse 40  
77855 Achern  
Germany  
Tel: +49 7841 666 0  
Fax: +49 7841 5000  
info.germany@de.tdk-lambda.com  
www.de.tdk-lambda.com



**TDK-Lambda UK Ltd.**

Kingsley Avenue  
Ilfracombe  
Devon EX34 8ES  
United Kingdom  
Tel: +44 (0) 12 71 85 66 66  
Fax: +44 (0) 12 71 86 48 94  
powersolutions@uk.tdk-lambda.com  
www.uk.tdk-lambda.com



**Austria Sales Office**

Aredstrasse 22  
2544 Leobersdorf  
Austria  
Tel: +43 2256 655 84  
Fax: +43 2256 645 12  
info.germany@de.tdk-lambda.com  
www.de.tdk-lambda.com



**Nemic Lambda Ltd.**

Kibbutz Givat  
Hashlosha 48800  
Israel  
Tel: +9 723 902 4333  
Fax: +9 723 902 4777  
info@nemic.co.il  
www.nemic.co.il

LOCAL DISTRIBUTION

