

- Small Size & Lightweight
- PCB Board Mountable
- Low Cost
- Universal Input Voltage
- RoHS Compliant

## KPSA Series

5 to 15W AC-DC

Board Mount Power Supplies

### Key Market Segments & Applications

- Factory Automation
- Telecom
- Datacom
- Printers and motor drives
- Instruments

### KPSA Features and Benefits

#### Features

- Small Size
- Wide Input Range
- No External Components Needed

#### Benefits

- Minimises PCB Space
- Global use with no manual intervention
- Easy to use

Specifications		KPSA-5	KPSA-10	KPSA-15
ITEMS	MODEL			
Input Voltage range	-	85 - 264VAC (47 - 63Hz) or 100 - 370VDC		
Inrush Current (115 / 230VAC)	A	30A Max at 230VAC		
Input Current	A	0.13 / 0.07	0.27 / 0.13	0.4 / 0.2
Temperature Coefficient	-	±0.05%/°C		
Voltage Accuracy	-	±1%		
Minimum Load	A	None		
Load Regulation	-	±1% (10% to 100% load)		
Line Regulation (1)	-	±0.5%		
Ripple & Noise (2)	mV	1% or 50mV whichever is greater		
Short Circuit Protection	-	Continuous - hiccup mode		
Overvoltage Protection	V	130-150%		
Hold Up Time (Typ@115VAC)	ms	12	12	12
LED Indicator	-	Green LED = OK		
Operating Temperature	°C	0 to +70 with derating		
Storage Temperature	°C	-20 to +85		
Humidity (non condensing)	%RH	10 - 95		
Cooling	-	Convection		
Withstand Voltage	-	Input to Output 3kVAC		
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, Class II, CE Mark		
Conducted & Radiated EMI	-	EN55022-B, FCC Class B		
Immunity	-	EN61000-4 -2, -3, -4, -5, -6		
Weight (Typ)	g	28	40	48
Size (WxLxH; H above pcb)	mm	55 X 33 X 21	61 X 40 X 20	70 X 45 X 20
Warranty	yrs	2		

#### Notes:

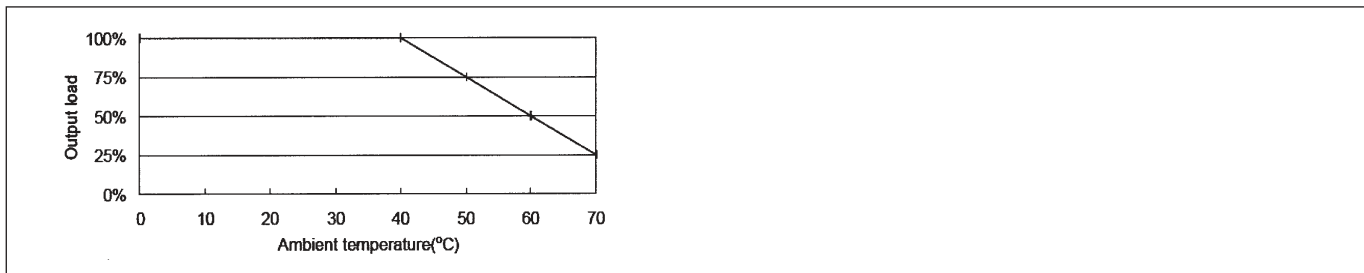
(1) KPSA-5 Measured from 100 - 240VAC

(2) Measured with 0.1µF ceramic & 10µF electrolytic at 20MHz BW

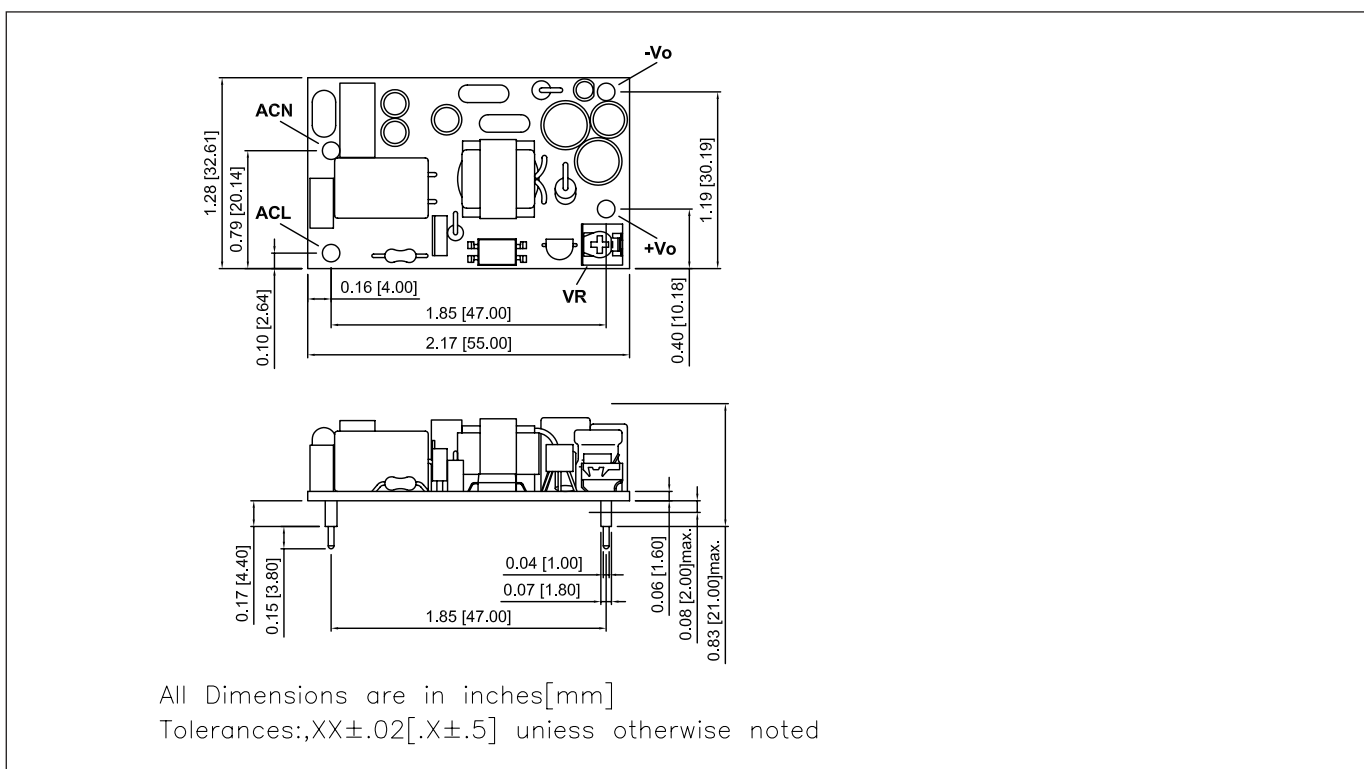
Model Selector

Model	Output Voltage (V)	Maximum Output (A)	Output Pwr (W)	Eff (typ)%
KPSA5-3R3	3.3	1.25	4.1	70
KPSA5-5	5.0	1.00	5.0	70
KPSA5-12	12.0	0.42	5.0	70
KPSA5-15	15.0	0.33	5.0	70
KPSA5-24	24.0	0.23	5.5	76
KPSA10-3R3	3.3	2.50	8.3	65
KPSA10-5	5.0	2.00	10.0	70
KPSA10-12	12.0	0.84	10.1	75
KPSA10-15	15.0	0.67	10.1	75
KPSA10-24	24.0	0.42	10.1	76
KPSA15-3R3	3.3	3.00	9.9	70
KPSA15-5	5.0	3.00	15.0	73
KPSA15-12	12.0	1.25	15.0	80
KPSA15-15	15.0	1.00	15.0	80
KPSA15-24	24.0	0.63	15.1	82

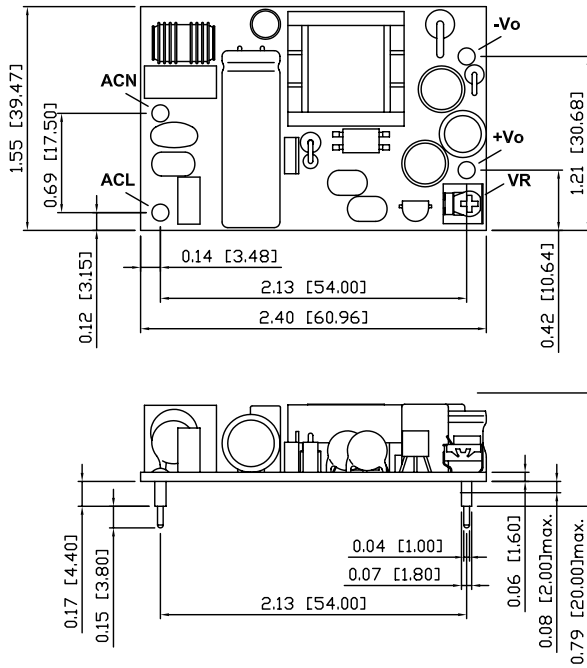
Derating Curve KPSA Series



Outline Drawing KPSA5 Series

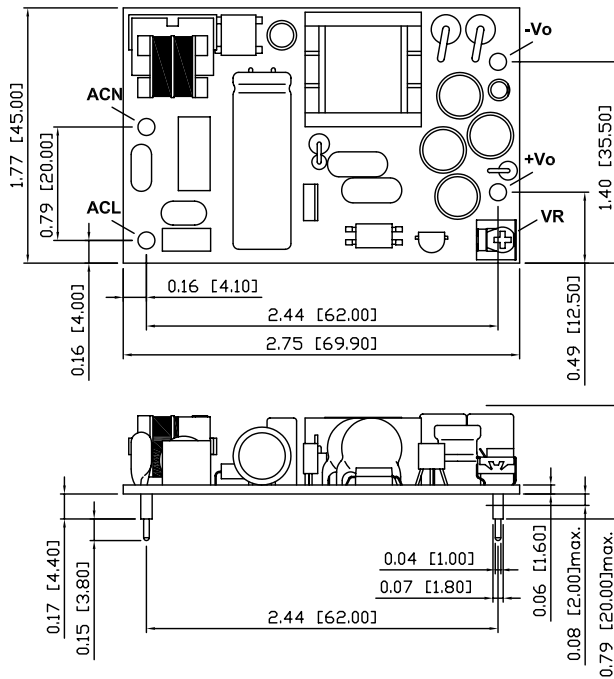


**Outline Drawing KPSA10 Series**



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

**Outline Drawing KPSA15 Series**



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

**INTERMEDIATE VOLTAGES AVAILABLE  
PLEASE CONSULT SALES**



## 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  
tts.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

