

- 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 ² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)		
Shock	-	< 196.1 m/s ² (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:

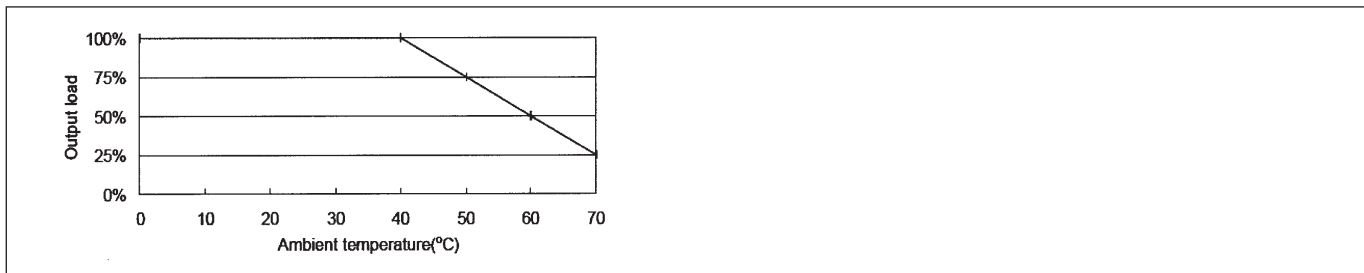
(1) KPSA-5 Measured from 100 - 240VAC

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

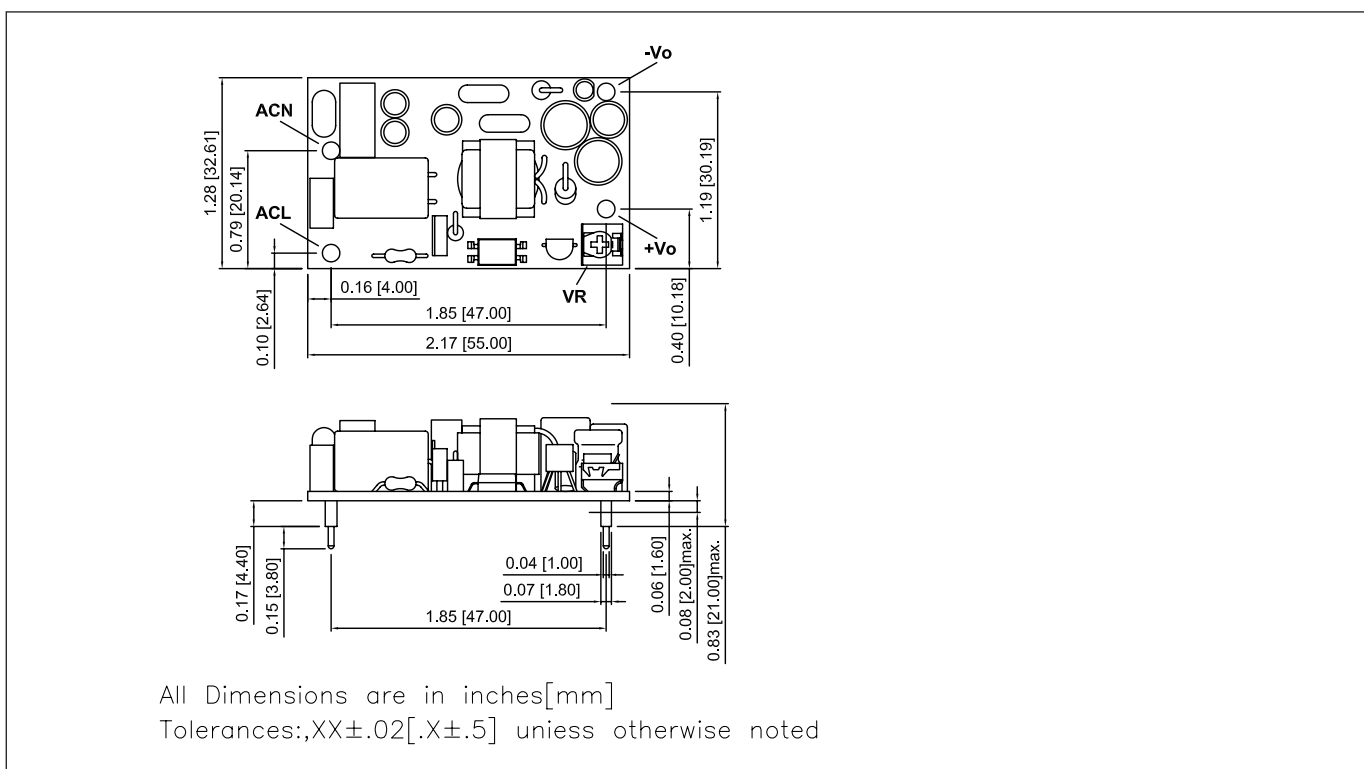
Model Selector

Model	Output Voltage (V)	Maximum Output (A)	Peak Load (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	3.80	8.3	65
KPSA10-5	5.0	2.00	2.80	10.0	70
KPSA10-12	12.0	0.84	1.20	10.1	75
KPSA10-15	15.0	0.67	1.00	10.1	75
KPSA10-24	24.0	0.42	0.65	10.1	76
KPSA15-3R3	3.3	3.00	4.50	9.9	70
KPSA15-5	5.0	3.00	4.50	15.0	73
KPSA15-12	12.0	1.25	1.80	15.0	80
KPSA15-15	15.0	1.00	1.50	15.0	80
KPSA15-24	24.0	0.63	0.95	15.1	82

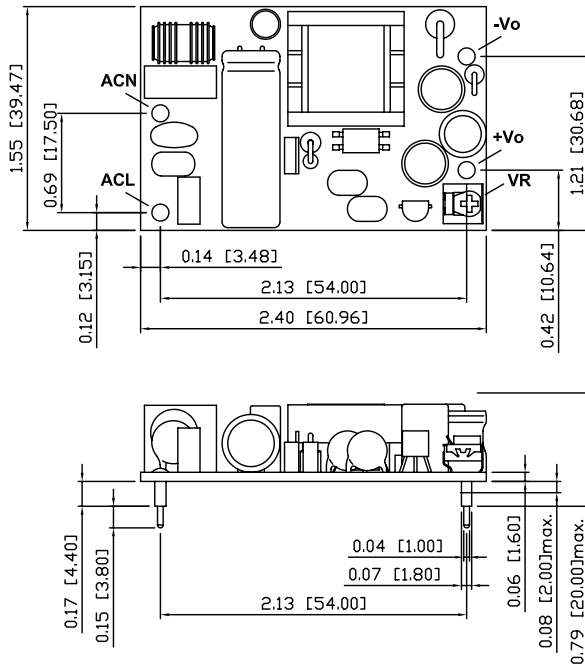
Derating Curve KPSA Series



Outline Drawing KPSA5 Series

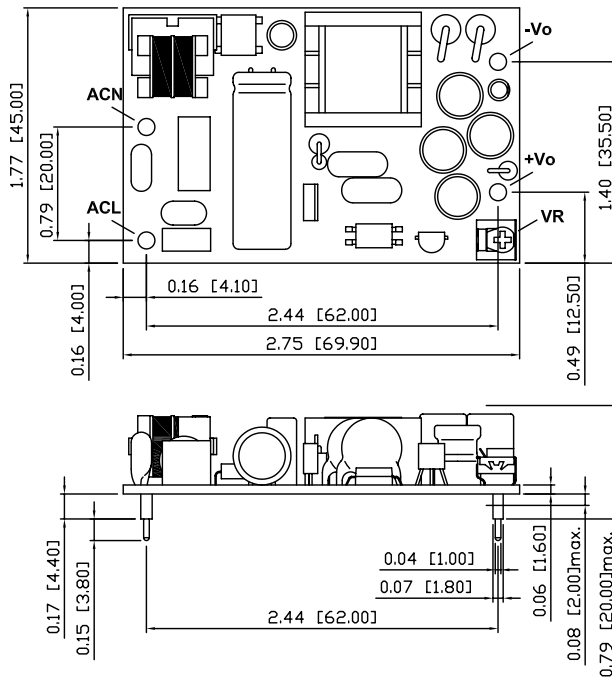


Outline Drawing KPSA10 Series



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

3 Avenue du Canada
 Parc Technopolis
 Bâtiment Sigma
 91940 les Ulis
 France
 Tel: +33 1 60 12 71 65
 Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.emea.lambda.tdk.com/fr



Italy Sales Office

Via Giacomo Matteotti 62
 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.emea.lambda.tdk.com/it



Netherlands

info@nl.tdk-lambda.com
www.emea.lambda.tdk.com/nl



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.emea.lambda.tdk.com/de



Austria Sales Office

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



Switzerland Sales Office

Eichtalstrasse 55
 8634 Hombrechtikon
 Switzerland
 Tel: +41 44 850 53 53
 Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.emea.lambda.tdk.com/ch



Nordic Sales Office

Haderslevvej 36B
 DK-6000 Kolding
 Denmark
 Tel: +45 8853 8086
info@dk.tdk-lambda.com
www.emea.lambda.tdk.com/dk



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
info@uk.tdk-lambda.com
www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.

1 Alexander Yanai
 Segula
 Petah-Tikva
 Israel
 Tel: +9 723 902 4333
 Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.emea.lambda.tdk.com/il



C.I.S.

Commercial Support:
 Tel: +7 (495) 665 2627
Technical Support:
 Tel: +7 (812) 658 0463
info@tdk-lambda.ru
www.emea.lambda.tdk.com/ru

Local Distribution

