



## KW Series

Compact AC-DC  
PCB-Mount Power Supplies

- Small size and lightweight
- PC Board Mountable
- -10 to +70 °C Continuous Operation
- 85 - 265VAC Wide Range Input
- World-wide Agency Approvals UL, CSA, TUV and CE Mark
- Convection Cooled
- Low Noise Conducted EMI Class B

### KW 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

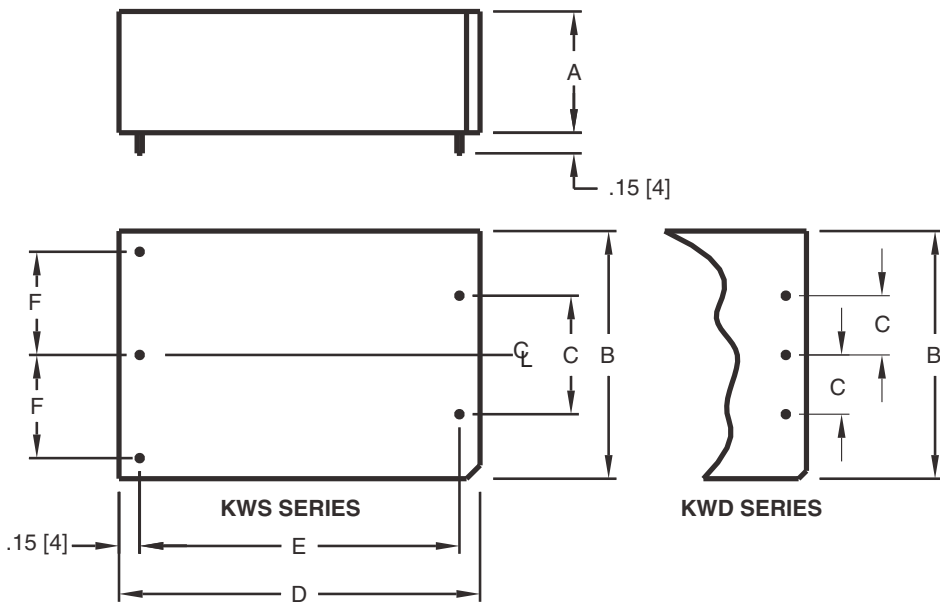
ITEMS		MODEL	5V	12V	15V	±12V	±15V
AC Input			85-265VAC 47-440Hz				
DC Input	VDC		110-340VDC				
Efficiency (typical)	%		67-74	70-77	70-77	69-75	69-75
Inrush Current Limiting	(1) A		5 & 10W: 15/30A, 15W: 20/40A				
Conducted EMI	-		FCC20780 class B, VDE0871 Class B, VCCI-2 (with external cap).				
Output Voltage Accuracy	%		± 5% (fixed)				
Line Regulation	%			0.4%			0.5%
Load Regulation	%			0.8%			5.0%
Ripple and Noise (pk-pk)	mV		120		150		
Hold-up Time (typical)	ms				17ms		
Overvoltage Protection (typical)	%				~110% (zener clamp)		
Overcurrent Protection	-				105%		
Cooling	-				Convection		
Operating Temperature	-		-10°C to 70°C, derate linearly to 25% load from 50°C to 70°C				
Humidity	%RH		30 - 90% (Operating)				
Isolation	VAC		Input to output: 3kVAC; Input to Case: 2kVAC; Output to Case: 500VAC				
Mounting	-		PC board mountable				
Safety Agency Approval	-		UL1950, CSA 22.2 No. 60950-1-03, EN60950-1 & CE Mark (LVD)				
Weight	g		5W: 75, 10W: 100, 15W: 150				
Warranty	-		1 year				

Notes: (1) 100/200VAC @ 25°C

Model Selector			
Model	Voltage (V)	Power (W)	Current (A)
<b>Single Output</b>			
KWS5-5	5V	5	1.00
KWS10-5	5V	10	2.00
KWS15-5	5V	15	3.00
KWS5-12	12V	5	0.45
KWS10-12	12V	10	0.90
KWS15-12	12V	15	1.30
KWS5-15	15V	5	0.35
KWS10-15	15V	10	0.70
KWS15-15	15V	15	1.00
<b>Dual Output</b>			
KWD5-1212	±12V	5	±0.22
KWD10-1212	±12V	10	±0.45
KWD15-1212	±12V	15	±0.65
KWD5-1515	±15V	5	±0.18
KWD10-1515	±15V	10	±0.36
KWD15-1515	±15V	15	±0.52

Pinout Table	
Pin	Function
FG	Case (Frame Ground)
AC(N)	AC Neutral
AC(L)	AC Line
-V	Negative Voltage Out
+V	Positive Voltage Out
COM	Output common

## Outline Drawing KW Series



**DIMENSIONS:**

MODEL	A	B	C	D	E	F
KWS5	.807 (20.5)	1.77 (45.0)	.787 (20.0)	2.16 (55.0)	1.850 (47.0)	.688 (17.5)
KWS10	.807 (20.5)	1.77 (45.0)	.787 (20.0)	2.52 (64.0)	2.125 (54.0)	.688 (17.5)
KWS15	.925 (23.5)	1.889 (48.0)	.905 (23.0)	2.75 (70.0)	2.440 (62.0)	.787 (20.0)
KWD5	.807 (20.5)	1.77 (45.0)	.393 (10.0)	2.16 (55.0)	1.850 (47.0)	.688 (17.5)
KWD10	.807 (20.5)	1.77 (45.0)	.393 (10.0)	2.52 (64.0)	2.125 (54.0)	.688 (17.5)
KWD15	.925 (23.5)	1.889 (48.0)	.453 (11.5)	2.75 (70.0)	2.440 (62.0)	.787 (20.0)

**WEIGHT:**

MODEL	GRAMS
KWS5	75
KWS10	100
KWS15	150
KWD5	75
KWD10	100
KWD15	150

**NOTE:**

1. DIMENSIONS ARE IN INCHES  
EXCEPT DIMENSIONS ( ) ARE IN MM.

2. PIN: 5x .039 (1.0).