

## 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

Feature	Benefit
◆ Small size	◆ Minimizes pcb space
◆ Wide input range	◆ Global use with no manual intervention
◆ No external components needed	◆ Easy to use

### Specifications

MODEL		5V	12V	15V	±12V	±15V
ITEMS						
AC Input		85-265VAC 47-440Hz				
DC Input	VDC	110-340VDC				
Efficiency (typical)	%	73	76	76	73	73
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%				
Load Regulation	%	0.8%				
Ripple and Noise (pk-pk)	mV	120	150			
Hold-up Time (typical)	ms	17ms				
Overvoltage Protection (typical)	%	~110% (zener clamp)				
Overload Protection	-	~125% (avoid prolonged operation in overload)				
Cooling	-	Convection				
Operating Temperature	-	-10°C to 70°C, derate linearly to 25% load from 50°C to 70°C				
Humidity	%RH	20% to 90% RH (non-condensing)				
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. 234; EN60950 & CE Mark (LVD)				
Weight	g	5W: 75, 10W: 100, 15W: 150				

(1) 100/200VAC @ 25°C

## Output Ratings

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

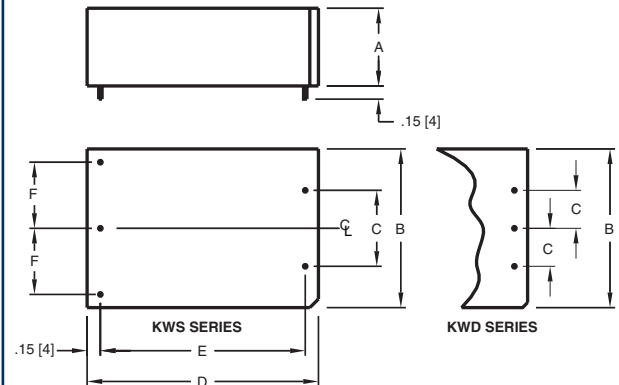
## PIN Out Table

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

## Other Lambda Industrial Products

RWS	15 & 30W Single Output
ZWS	5W to 150W Single output, universal input
SC	30 to 150W Single, Dual, Triple & Quad output

## KW Outline Drawing



### 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).

KWD5/KWD10/KWD15  
KWS5/KWS10/KWS15