

# KWS/KWD SERIES

AC/DC Single & Dual Output: 5 - 15 Watts



## Features

- PCB mounting
- Wide range 85~264VAC input
- Three power levels: 5W, 10W and 15W
- Single and dual output models
- OVP and overload protection
- Safety approvals
- EMC approval, CE marked
- Fully isolated output
- Ideal for a high tech applications

## Dimensions:

	L	W	H	Weight:
KWS5	55	45	20.5mm	75g
KWS10	64	45	20.5mm	100g
KWS15	70	48	23.5mm	150g
KWD5	55	45	20.5mm	75g
KWD10	64	45	20.5mm	100g
KWD15	70	48	23.5mm	150g

## Specifications

<b>INPUT VOLTAGE:</b>	85 - 264VAC or 110 - 340VDC
<b>FREQUENCY:</b>	47 - 440Hz
<b>INRUSH CURRENT:</b>	Typically 15A @ 100VAC 30A @ 200VAC
<b>EFFICIENCY:</b>	Model dependent, 67~77%
<b>VOLTAGE ACCURACY:</b>	Voltage is factory set with 5%
<b>OUTPUT V/A:</b>	Refer to table
<b>OUTPUT POWER:</b>	5 - 15 watts
<b>LINE REGULATION:</b>	20mV at 5V output 48 - 50mV at 12 - 15V output 60mV at KWD - 1212 75mV at KWD - 1515
<b>LOAD REGULATION:</b>	40mV at 5V output 96mV at 12V output 600mV at KWD - 1212 750mV at KWD - 1515
<b>RIPPLE &amp; NOISE:</b>	120 - 150mV maximum, model dependent
<b>HOLD-UP TIME:</b>	17ms at 100VAC
<b>OPERATING TEMPERATURE:</b>	-10°C to 50°C at full load Derate to 60% load at 60°C and derate to 25% load at 70°C
<b>HUMIDITY:</b>	20% - 90%RH non-condensing
<b>OVERLOAD PROTECTION:</b>	Current limit with auto recovery set at approximately 105% of rating
<b>OVERVOLTAGE PROTECT:</b>	All models with Zener diode clamping set at approx. 110% of V out
<b>COOLING:</b>	Convection cooled
<b>MOUNTING:</b>	PCB mounting
<b>ISOLATION:</b>	Input - output: 3000VAC Output - ground: 2000VAC Output - ground: 500VDC
<b>PARALLEL OPERATION:</b>	No
<b>SERIES OPERATION:</b>	Yes
<b>SAFETY:</b>	UL1950, EN60950 approvals
<b>EMI:</b>	Conducted to EN55022 levelA, level B with external X capacitor

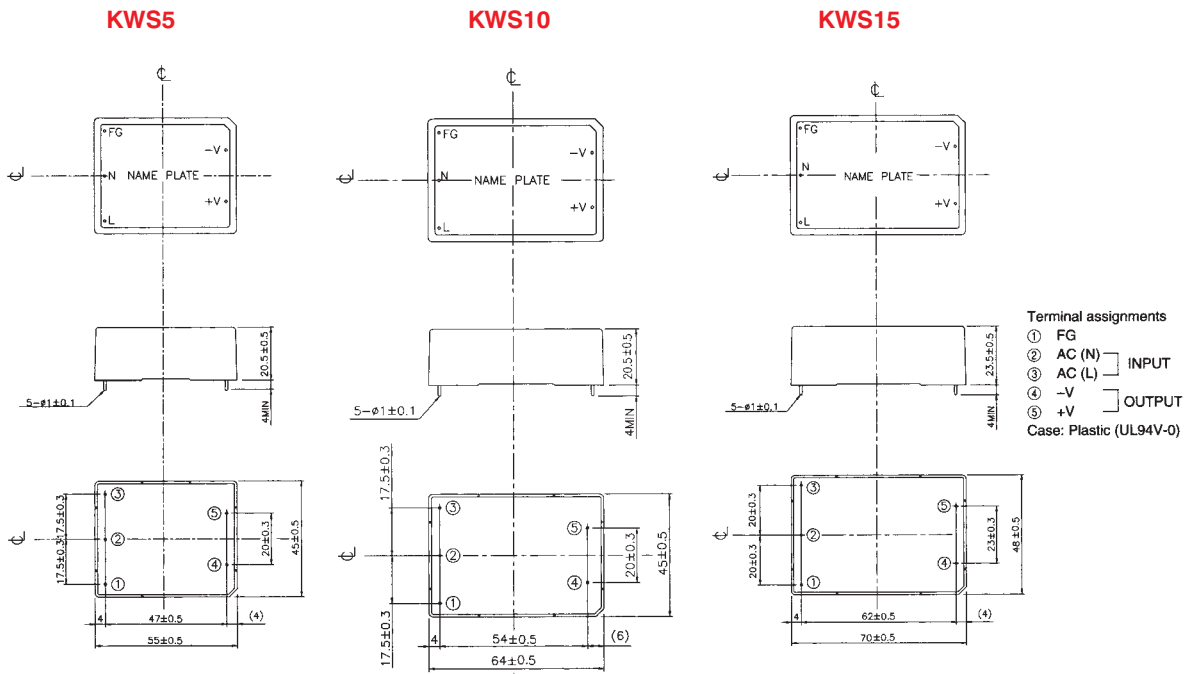
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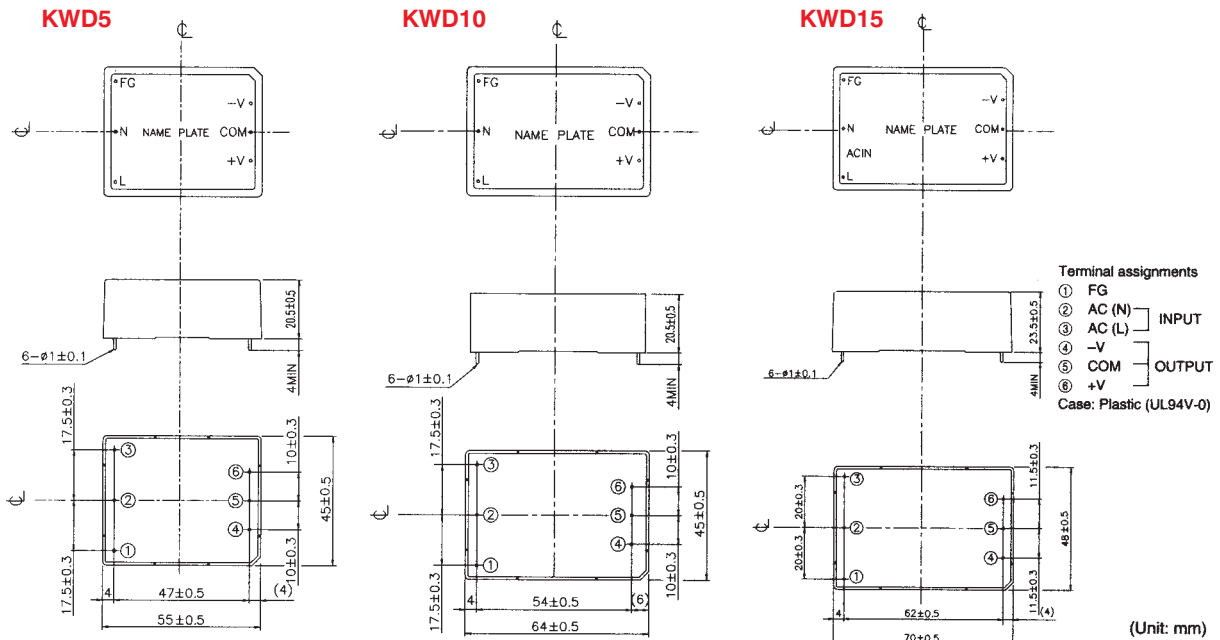
MODEL	Output		Power W
	V	A	
KWS5 - 5	5V	1.A	5W
KWS10 - 5	5V	2A	10W
KWS15 - 5	5V	3A	15W
KWS5 - 12	12V	0.45A	5W
KWS10 - 12	12V	0.9A	10W
KWS15 - 12	12V	1.3A	15W
KWS5 - 15	15V	0.35A	5W
KWS10 - 15	15V	0.7A	10W
KWS15 - 15	15V	1.A	15W

MODEL	Output		Power W
	V	A	
KWD5 - 1212	±12V	0.22A	5W
KWD10 - 1212	±12V	0.45A	10W
KWD15 - 1212	±12V	0.65A	15W
KWD5 - 1515	±15V	0.18A	5W
KWD10 - 1515	±15V	0.36A	10W
KWD15 - 1515	±15V	0.52A	15W

Dual output can be connected in series to provide 24V (±12V) and 30V (±15V)



(Unit: mm)



(Unit: mm)