



# KB6

## 6 Watt Single and Dual Output, PCB Mountable AC/DC Switching Power Supply



### FEATURES

- ✔ PCB MOUNTABLE
- ✔ SUPER SMALL SIZE
- ✔ HIGH POWER DENSITY
- ✔ UNIVERSAL INPUT / "CE-MARK"
- ✔ HIGH RELIABILITY
- ✔ OVERCURRENT PROTECTION
- ✔ TWO YEAR WARRANTY

### SAFETIES / EMI



FCC Part 15-B  
EN 55022-B

### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load.

### INPUT SPECIFICATIONS

Input Voltage.....	AC 85V-264V
Input Frequency.....	47-63 Hz
Input Current.....	Vin= 115v 0.11A
	Vin= 230v 0.07A
Inrush Current.....	Vin= 100v 7A
	Vin= 230v 16A

### OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Adjustment.....	No Adjustment
Efficiency.....	70~75%
Over-Voltage Protection.....	N/A
Over-Current Protection.....	Automatic Recovery (105% min)
Ripple and Noise.....	80 mVp-p (typ.)
Hold-Up Time.....	Vin= 100v 14mSec
	Vin= 230v 130mSec
Line/Load Regulation.....	Io=0~100% @ 1%
Rise Time.....	Vin= 100v 170mSec
	Vin= 230v 170mSec
Leakage Current.....	Vin= 100v 0.03 m RMS
	Vin= 230v 0.05 m RMS

### GENERAL SPECIFICATIONS

Switching Frequency.....	100 KHz Typ
MTBF.....	>200,000 Hours Typ
Isolation Voltage	
Primary to Secondary.....	3000 VAC
Primary to Case.....	1500 VAC
Secondary to Case.....	500 VAC
Isolation Resistance.....	100 MΩ

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....	0°C ~ +60°C
	Derates linearly 2.5%/°C after 50°C
Cooling.....	Convection
Temperature Coefficient.....	0.02% / °C
Humidity.....	20~85% Rh
Storage Temperature.....	-20° ~ +85°C
Shock/Vibration.....	Shock: 20G (3 Directions each 3 times)
	Vibration: 1~55Hz

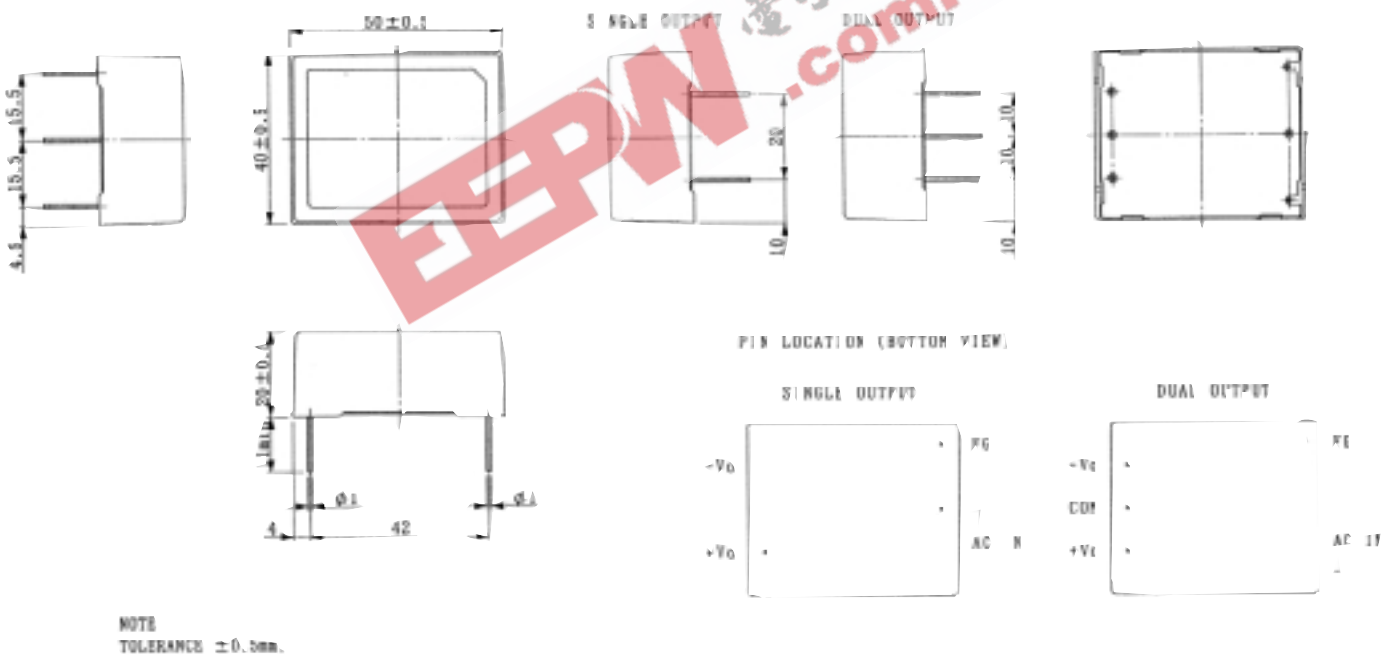
### PHYSICAL SPECIFICATIONS

Board Level Encapsulated  
Thru-hole Pins

# Series

MODEL	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD (TYP.)
<b>KB06-05S</b>	115-230 V 50-60 HZ	5 VDC	0 ~ 1.2 A	70%
<b>KB06-12S</b>	115-230 V 50-60 HZ	12 VDC	0 ~ 0.5 A	75%
<b>KB06-15S</b>	115-230 V 50-60 HZ	15 VDC	0 ~ 0.4 A	75%
<b>KB06-24S</b>	115-230 V 50-60 HZ	24 VDC	0 ~ 250 mA	75%
<b>KB06-122D</b>	115-230 V 50-60 HZ	± 12 VDC	±25 ~ 250 mA	75%
<b>KB06-153D</b>	115-230 V 50-60 HZ	± 15 VDC	±20 ~ 200 mA	75%

## KB6 Series



### NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.  
Avoid sustained operation in overload or dead short conditions.  
Specifications subject to changes without notice.

• Dimensions in mm