



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 |

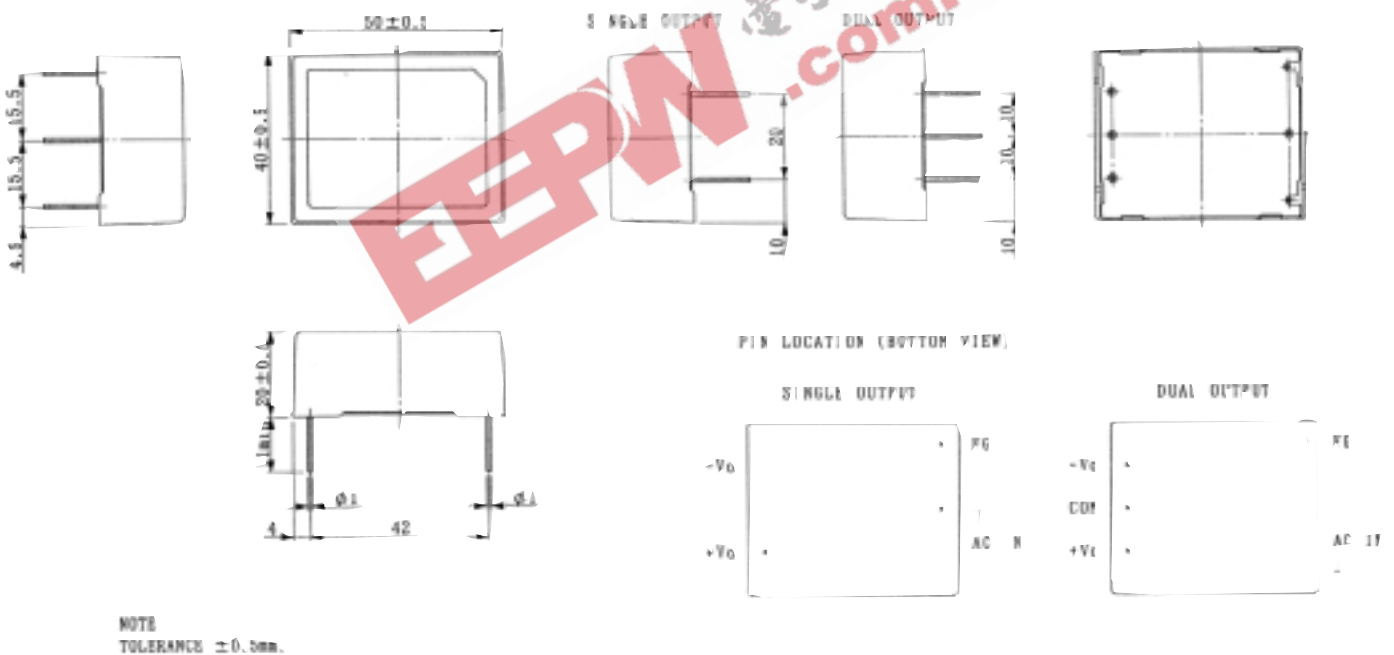
PHYSICAL SPECIFICATIONS

Board Level Encapsulated
 Thru-hole Pins

Series

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