



KB25

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



FEATURES

- PC BOARD 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 0.36A
	Vin= 230v 0.26A
Inrush Current.....	Vin= 100v 5.0A
	Vin= 230v 14.0A

OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Adjustment.....	No Adjustment
Efficiency.....	73~79%
Over-Voltage Protection.....	N/A
Over-Current Protection.....	Automatic Recovery (105% min)
Ripple and Noise.....	150 mVp-p (typ.)
Hold-Up Time.....	Vin= 100v 19mS
	Vin= 230v 120mS
Line/Load Regulation.....	0.4% / 1% (MAX)
Rise Time.....	Vin= 100v 140mS
	Vin= 230v 120mS
Leakage Current.....	Vin= 100v 0.15 m RMS
	Vin= 230v 0.29 m RMS

GENERAL SPECIFICATIONS

Switching Frequency.....	100 KHz Typ
MTBF.....	>173,000 Hours
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

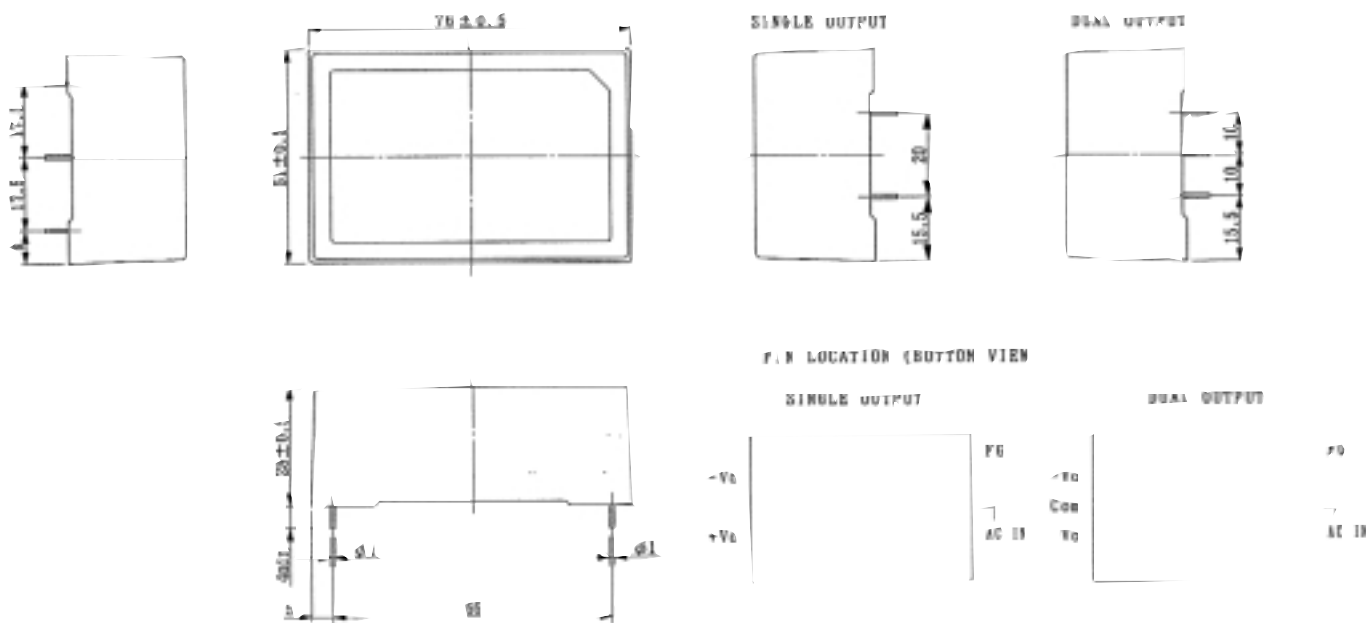
PHYSICAL SPECIFICATIONS

Board Level Encapsulated
 Thru-hole Pins

Series

MODEL	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD(TYP.)
KB25-05S	115 V 50-60 HZ	5 VDC	0.42 ~ 4.2 A	73%
	230 V 50-60 HZ	5 VDC	0.46 ~ 4.6 A	75%
KB25-12S	115 V 50-60 HZ	12 VDC	0.18 ~ 1.8 A	77%
	230 V 50-60 HZ	12 VDC	0.20 ~ 2.0 A	79%
KB25-15S	115 V 50-60 HZ	15 VDC	0.15 ~ 1.5 A	77%
	230 V 50-60 HZ	15 VDC	0.16 ~ 1.6 A	78%
KB25-24S	115 V 50-60 HZ	24 VDC	90 ~ 900 mA	75%
	230 V 50-60 HZ	24 VDC	100 ~ 1000 mA	77%
KB25-122D	115 V 50-60 HZ	± 12 VDC	±90 ~ 900 mA	75%
	230 V 50-60 HZ	± 12 VDC	±100 ~ 1000 mA	78%
KB25-153D	115 V 50-60 HZ	± 15 VDC	±75 ~ 750 mA	77%
	230 V 50-60 HZ	± 15 VDC	±80 ~ 800 mA	78%

KB25 Series



NOTE
TOLERANCE ± 0.05mm

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

