

# KB25C

## “QUICK LOCK™” 25 Watt Single and Dual Output, Chassis Mountable AC/DC Switching Power Supply



### FEATURES

- ✔ CHASSIS MOUNTABLE
- ✔ “NEW” QUICK LOCK™ TERMINAL BLOCK
- ✔ 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 5A
	Vin= 230v 14A

### 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 max
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 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

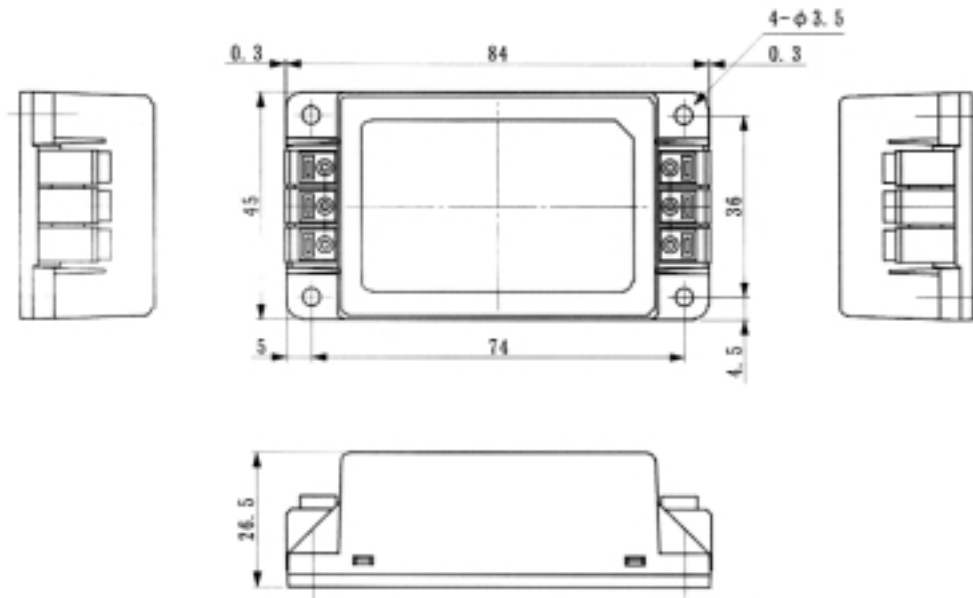
### PHYSICAL SPECIFICATIONS

Quick lock connector

# Series

MODEL	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD(TYP.)
<b>KB25C-05S</b>	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%
<b>KB25C-12S</b>	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%
<b>KB25C-15S</b>	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%
<b>KB25C-24S</b>	115 V 50-60 HZ	24 VDC	90 ~ 900 mA	75%
	230 V 50-60 HZ	24 VDC	100 ~ 1000 mA	77%
<b>KB25C-122D</b>	115 V 50-60 HZ	± 12 VDC	±90 ~ 900 mA	75%
	230 V 50-60 HZ	± 12 VDC	±100 ~ 1000 mA	78%
<b>KB25C-153D</b>	115 V 50-60 HZ	± 15 VDC	±75 ~ 750 mA	77%
	230 V 50-60 HZ	± 15 VDC	±80 ~ 800 mA	78%

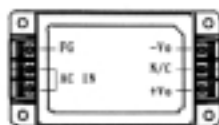
## KB25C Series



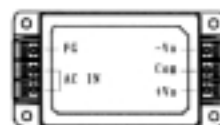
TERMINAL LOCATION

INPUT & OUTPUT TERMINAL : ML-400NV3P (SATO PARTS)

SINGLE OUTPUT



DUAL OUTPUT OUTPUT



### 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
- "Pin" type connector available