

# KORAD

## KD SERIES

SHENZHEN KORAD TECHNOLOGY CO.,LTD

**Industrial Grade**



KD3000/6000 series are digital control and programmable DC power supplies with encoder-controlled, and led by KORAD. The programmable power supplies are built in the standard interfaces - USB & RS232, which makes the remote communications much more convenient and faster. And the 2 adjustment modes of the encoders satisfy various operation habits of users. The models of this series are up to 10 kinds and the power range is from 90W to 300W.



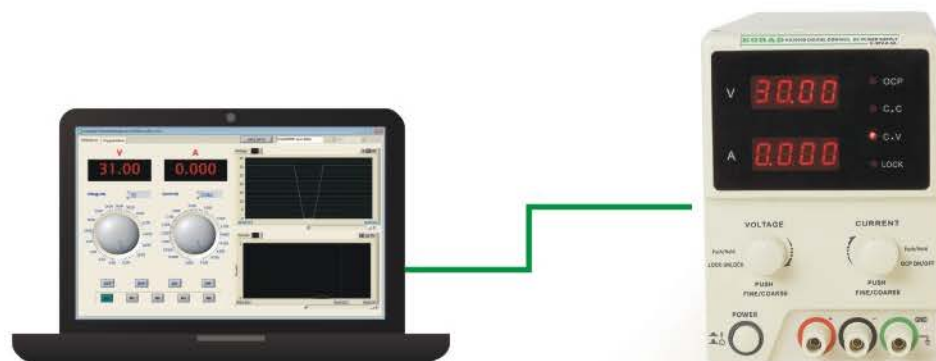
## Application

- Automatic Testing in the Production Line
- School Laboratory
- Repairing
- R&D
- QC
- Aging Test

## Main Features

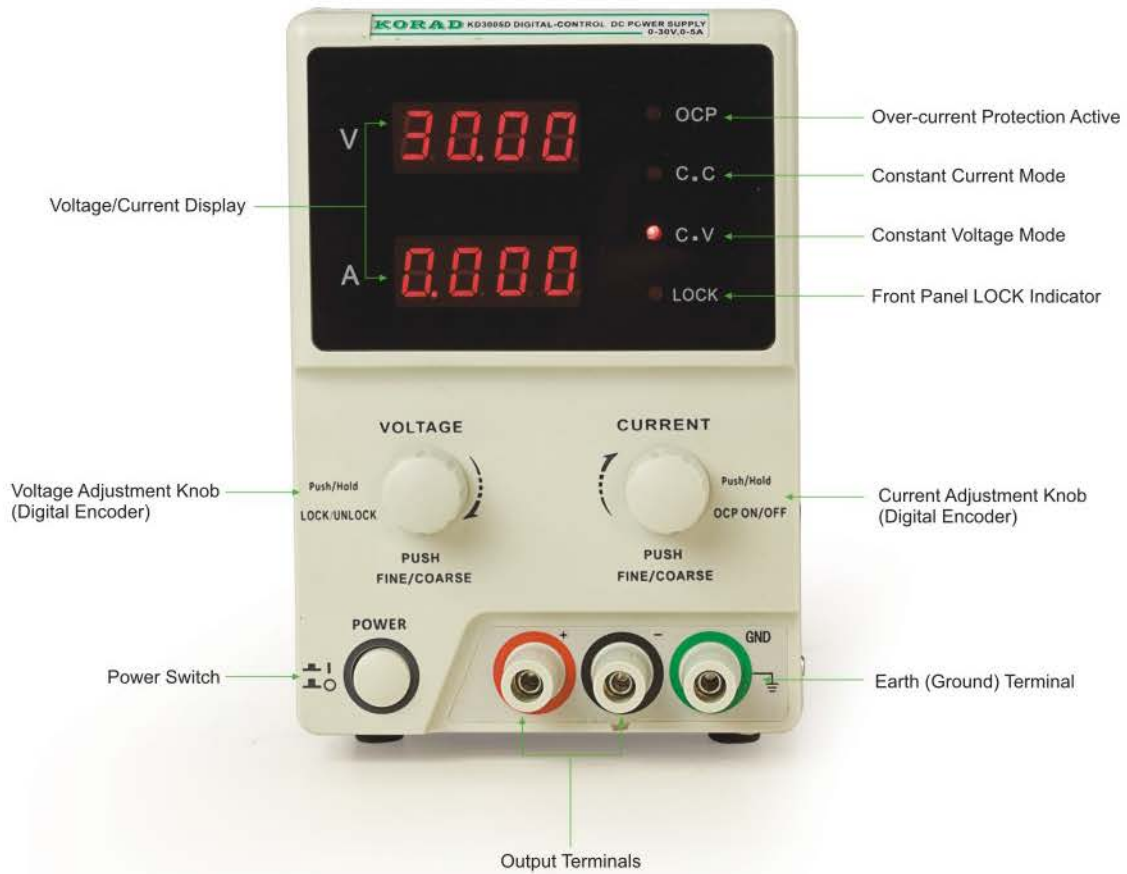
- Complete digital control
- Industrial grade, with load for a long time
- Encoder-controlled fine & coarse adjustment
- Intelligent temperature-controlled fan
- Compact design
- Over-current Protection
- Constant current & constant voltage
- Current Preset
- 4-digit display
- 10mV / 1mA high accuracy and resolution
- Low noise and ripple
- Knob LOCK function to avoid improper operation

## Software Testing



# KORAD

## Output Indicators



### KD..P Version



### KD..D Version



## SPECIFICATIONS

Note: The specifications below are tested under the conditions of temperature  $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$  and the warm-up for 20 minutes.

Models	KD3003	KD3005	KD6002	KD6003	KD6005
Voltage Range	0-30V	0-30V	0-60V	0-60V	0-60V
Current Range	0-3A	0-5A	0-2A	0-3A	0-5A
<b>Load Regulation</b>					
Voltage	$\leq 0.01\% + 2\text{mv}$	$\leq 0.01\% + 2\text{mv}$	$\leq 0.01\% + 2\text{mv}$	$\leq 0.01\% + 2\text{mv}$	$\leq 0.01\% + 2\text{mv}$
Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$
<b>Line Regulation</b>					
Voltage	$\leq 0.01\% + 3\text{mv}$	$\leq 0.01\% + 3\text{mv}$	$\leq 0.01\% + 3\text{mv}$	$\leq 0.01\% + 3\text{mv}$	$\leq 0.01\% + 3\text{mv}$
Current	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$
<b>Setup Resolution</b>					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
<b>Setup Accuracy ( <math>25^{\circ}\text{C} \pm 5^{\circ}\text{C}</math> )</b>					
Voltage	$\leq 0.5\% + 20\text{mV}$	$\leq 0.5\% + 20\text{mV}$	$\leq 0.5\% + 30\text{mV}$	$\leq 0.5\% + 30\text{mV}$	$\leq 0.5\% + 30\text{mV}$
Current	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$
<b>Ripple(20-20M)</b>					
Voltage	$\leq 1\text{mVrms}$	$\leq 2\text{mVrms}$	$\leq 1\text{mVrms}$	$\leq 1\text{mVrms}$	$\leq 1\text{mVrms}$
Current	$\leq 3\text{mA}_{\text{rms}}$	$\leq 3\text{mA}_{\text{rms}}$	$\leq 3\text{mA}_{\text{rms}}$	$\leq 3\text{mA}_{\text{rms}}$	$\leq 3\text{mA}_{\text{rms}}$
<b>Temp. Coefficient</b>					
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
<b>Read Back Resolution</b>					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
<b>Read Back Temp. Coefficient</b>					
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
<b>Reaction Time</b>					
Voltage Rise	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$
Voltage Drop	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$	$\leq 100\text{mS}$
	(10% Rated load)	(10% Rated load)	(10% Rated load)	(10% Rated load)	(10% Rated load)
<b>Interface</b>					
	Optional Interfaces (for programmable models only): RS232, USB				
<b>Accessories</b>					
	User manual *1, ; Power cord*1				
<b>Weight and Dimension</b>					
	KA3003,KA3005:110mm(W)*156mm(H)*260(D) KA3010,KA6005:110mm(W)*156mm(H)*300(D) KA3003x3.6Kg,KA3005x4.8Kg,KA6005,KA3010x7.5Kg,				