

KORAD

KD SERIES

**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.



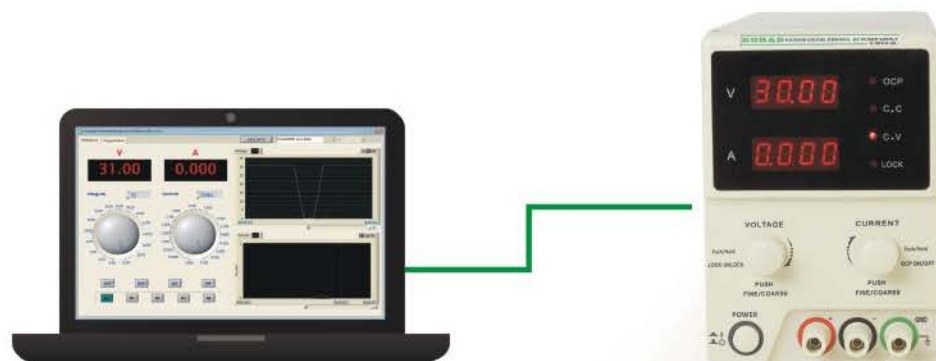
Application

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

Main Features

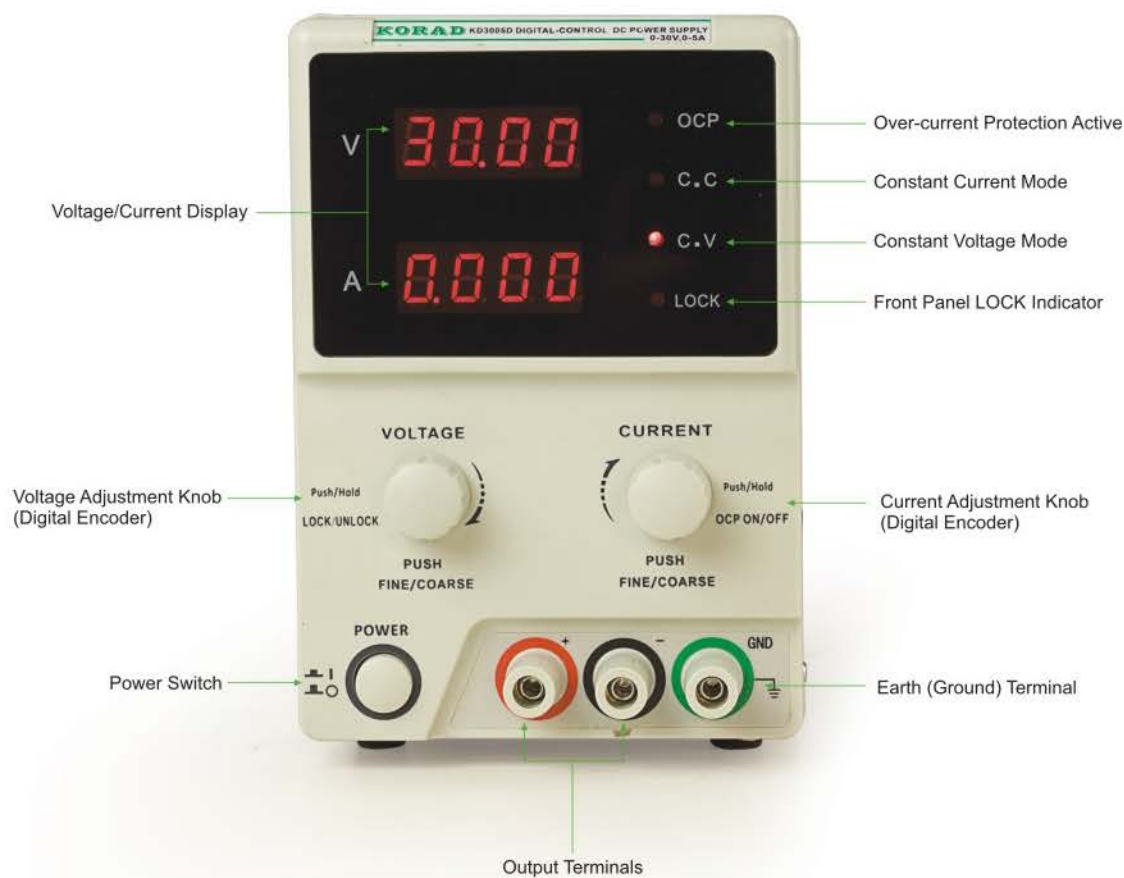
- Complete digital control
- Industrial grade, with load for a long time
- Encoder-controlled fine & coarse adjustment
- Intelligent temperature-controlled fan
- Compact design
- Over-current Protection
- Constant current & constant voltage
- Current Preset
- 4-digit display
- 10mV / 1mA high accuracy 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
Load Regulation					
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	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$
Line Regulation					
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	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$
Setup Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
Setup Accuracy ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)					
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	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$
Ripple(20-20M)					
Voltage	$\leq 1\text{mVrms}$	$\leq 2\text{mVrms}$	$\leq 1\text{mVrms}$	$\leq 1\text{mVrms}$	$\leq 1\text{mVrms}$
Current	$\leq 3\text{mArms}$	$\leq 3\text{mArms}$	$\leq 3\text{mArms}$	$\leq 3\text{mArms}$	$\leq 3\text{mArms}$
Temp. Coefficient					
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Read Back Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
Read Back Temp. Coefficient					
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Reaction Time					
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)
Interface					
Optional Interfaces (for programmable models only): RS232, USB					
Accessories					
User manual *1, ; Power cord*1					
Weight and Dimension					
KA3003,KA3005:110mm(W)*156mm(H)*260(D) KA3010,KA6005:110mm(W)*156mm(H)*300(D) KA3003x3.6Kg,KA3005x4.8Kg,KA6005,KA3010x7.5Kg,					