

## KD-SERIES SINGLE-CHANNEL DC LINEAR POWER SUPPLIES

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### Product Description

The KD-Series of regulated DC power supplies features industrial-grade performance at an affordable price point. Its lineup ranges from models with digital control to fully programmable; all with precision encoder adjustment for voltage and current and system lockout to prevent unwanted changes. They are also designed with over-voltage and over-current protection and intelligent temperature-controlled fan.

### Key Features

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



## Specifications

Models	KD3003D/ KD3003P	KD3005D/ KD3005P	KD6002D/ KD6002P	KD6003D/ KD6003P	KD6005D/ KD6005P
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	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV
Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+10mA
<b>Line Regulation</b>					
Voltage	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA	≤0.1%+3mA	≤0.1%+3mA	≤0.1%+3mA
<b>Setup Resolution</b>					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
<b>Setup Accuracy(25°C±5°C)</b>					
Voltage	≤0.5%+20mV	≤0.5%+20mV	≤0.5%+30mV	≤0.5%+30mV	≤0.5%+30mV
Current	≤0.5%+5mA	≤0.5%+10mA	≤0.5%+5mA	≤0.5%+5mA	≤0.5%+10mA
<b>Ripple(20-20M)</b>					
Voltage	≤1mVrms	≤2mVrms	≤1mVrms	≤1mVrms	≤1mVrms
Current	≤3mVrms	≤3mVrms	≤3mVrms	≤3mVrms	≤3mVrms
<b>Temp.Coefficient</b>					
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
<b>Read Back Resolution</b>					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
<b>Read Back Temp.Coefficient</b>					
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
<b>Reaction Time</b>					
Voltage Rise	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS
Voltage Drop	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS
	(10% Rated load)	(10% Rated load)	(10% Rated load)	(10% Rated load)	(10% Rated load)
<b>Interface(for programmable models KA3003P,KA3005P,KA6002P,KA6003P,KA3010P &amp; KA6005P)</b>					
RS232,USB					
<b>Accessories</b>					
User manual,power cord(KD3003D,KD3005D,KD6002D,KD6003D & KD6005D)					
User manual,power cord,USB cable & software CD(KD3003P,KD3005P,KD6002P,KD6003P & KD6005P)					
<b>Weight and Dimension</b>					
KD3003,KD3005,KD6002 & KD6003:100mm(W)*156mm(H)*260mm(D)					
KD6005:110mm(W)*156mm(H)*260mm(D)					
KD3003x3.5kg,KD3005x4.25kg,KD6002x4.05kg,KD6003x4.38kg & KD6005x7.88kg					

