

KD-SERIES SINGLE-CHANNEL DC LINEAR POWER SUPPLIES



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
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°C±5°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	$\leq 3\text{mVrms}$	$\leq 3\text{mVrms}$	$\leq 3\text{mVrms}$	$\leq 3\text{mVrms}$	$\leq 3\text{mVrms}$
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(for programmable models KA3003P,KA3005P,KA6002P,KA6003P,KA3010P & KA6005P)					
RS232,USB					
Accessories					
User manual,power cord(KD3003D,KD3005D,KD6002D,KD6003D & KD6005D)					
User manual,power cord,USB cable & software CD(KD3003P,KD3005P,KD6002P,KD6003P & KD6005P)					
Weight and Dimension					
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					

