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KORAD

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Manufacturer of Top Quality T&M Instruments






KA Series
U200 Series
KKG Series
KWR Series
KS Series
KC Series
KEL Series
KD Series


KORAD

AN ISO9001:2015 CERTIFIED COMPANY

Manufacturer of Top Quality T&M Instruments

Company Profile

KORAD TECHNOLOGY CO., LTD is a professional and new-style science and technology enterprise based on developing digital control & programmable DC power supplies, digital control &programmable DC electronic load, high-power power supplies, and switching Model power supplies, which are the main products of KORAD. And KORAD have been specializing in the research of the power supply industry and the engineers have very rich experience in power supplies. Now KORAD power supplies are quite popular worldwide. Many public companies in various fields use them for their important R&D laboratory projects.

Quality
KORAD will develop new products without stopping to meet various demands and provide you top quality through the continuous improvement and innovation.

Sales Network & Service
In domestic market, KORAD have dozens of distributors across China and also have many good partners in North America, South America, Europe, Oceania and Asia. There is 2-year warranty for our products and the prompt response will reach you from our service team.



KA3000/6000

Upgraded Series

KA3000DS	KA6000DS
KA3000DE	KA6000DE
KA3000DEA	KA6000DEA
KA3000PS	KA6000PS
KA3000PE	KA6000PE
KA3000PE+	KA6000PE+
KA3000PEA	KA6000PEA
KA3000PEA+	KA6000PEA+

INTRODUCTION

KA3000/6000DS/DE/DEA/PS/PE/PE+/PEA/PEA+ upgraded Series is linear DC power supply with power 150W – 300W, high output accuracy and fast communication response. And it can be divided into 8 Series according to functions and external interfaces, including respectively terminal compensation function, external analog control, external switching interface and so on, which can be used in a variety of simple and complex applications.

FEATURES

- Low noise: the cooling fan is controlled by the radiator temperature.
- High–precision voltage and current output (see parameter table), and maximum resolution 0.1mA of current reading.
- Constant Voltage/Constant Current operation
- Output ON/OFF control
- Voltage, current and power display
- Digital panel control
- 4 pairs of saving/recalling panel settings
- Coarse and fine voltage/.current control
- Software calibration
- Keyboard LOCK function
- Over–Voltage and Over–Current Protections that can set parameters
- Reverse polarity protection
- Short circuit protection
- Analog control interface and external switch control interface (only for some models)
- Output terminal voltage compensation (only for some models)
- USB/RS232 for remote control (only for some models)
- RS485 control interface (only for some models)

PANEL DESCRIPTION

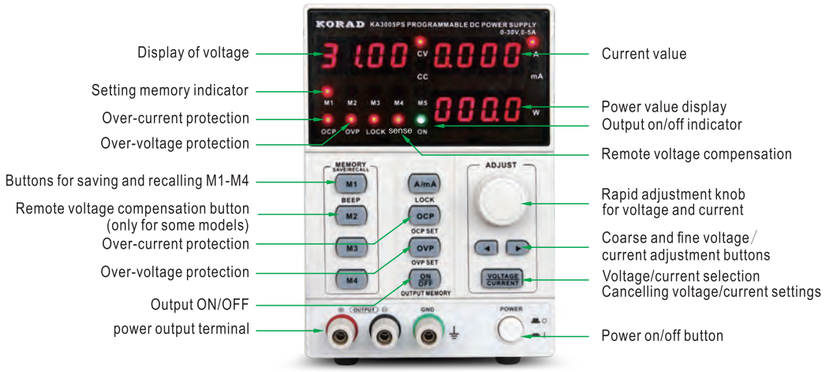
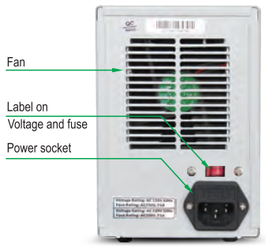
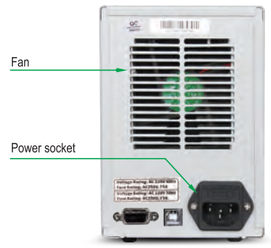


Diagram of Rear Panel

DS Series



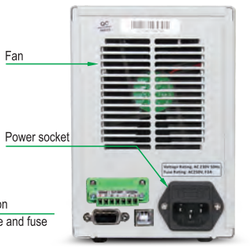
PS Series

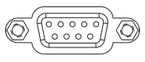


PE Series

PE+ Series

PEA Series





RS232 interface USB interface

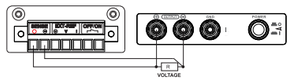
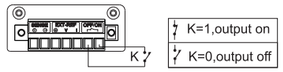
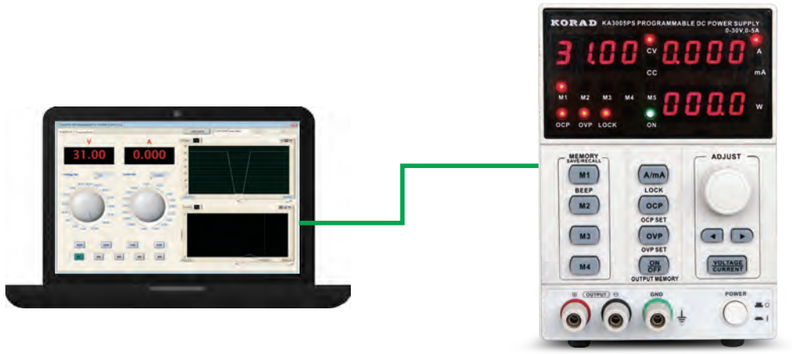


Diagram of Rear Panel
(only for some models)



Wiring Diagram of External Switch Control
(only for some models)

SOFTWARE TESTING



CORRESPONDENCE TABLE OF ModelLS AND FUNCTIONS

Model	V meter	A meter	Resolution	Current Read Resolution (C>0.5A) and (C<=0.5A)	External interface	Analog control interface	RS232 USB
KA3003DS KA3005DS	4 digit	4 digit	10mV/1mA	1m A and 0.1mA	No	No	No
KA3003DE KA3005DE					Exter switch and voltage compensation	No	No
KA3003DEA KA3005DEA						Yes	No
KA3003PS KA3005PS					No	No	Yes
KA3003PE KA3005PE					Exter switch and voltage compensation	No	Yes
KA3003PEA KA3005PEA						Yes	Yes
KA3010DS KA6005DS					No	No	No
KA3010DE KA6005DE					Exter switch and voltage compensation	No	No
KA3010DEA KA6005DEA						Yes	No
KA3010PS KA6005PS					No	No	Yes
KA3010PE KA6005PE					Exter switch and voltage compensation	No	Yes
KA3010PEA KA6005PEA						Yes	Yes
KA6002DS KA6003DS					No	No	No
KA6002DE KA6003DE					Exter switch and voltage compensation	No	No
KA6002DEA KA6003DEA						Yes	No
KA6002PS KA6003PS					No	No	Yes
KA6002PE KA6003PE					Exter switch and voltage compensation	No	Yes
KA6002PEA KA6003PEA						Yes	Yes

KA3003PE+, KA3005PE+, KA6002/3PE+, KA3010PE+, KA6005PE+, KA3003PEA+, KA3005PEA+, KA6002/3PEA+, KA3010PEA+, KA6005PEA+, RS485 and MODBUS communication functions are added on the 12 Modells based on the according functions on the above table.

SPECIFICATIONS

Note: The specifications below are tested under the conditions of temperature 25˚C±5C and the warm-up for 20 minutes.

Appearance						
Model	**KA3003DS KA3003DE KA3003DEA KA3003PS KA3003PE KA3003PE+ KA3003PEA KA3003PEA+**	**KA3005DS KA3005DE KA3005DEA KA3005PS KA3005PE KA3003PE+ KA3005PEA KA3005PEA+**	**KA6002DS KA6002DE KA6002DEA KA6002PS KA6002PE KA6002PE+ KA6002PEA KA6002PEA+**	**KA6003DS KA6003DE KA6003DEA KA6003PS KA6003PE KA6003PE+ KA6003PEA KA6003PEA+**	**KA3010DS KA3010DE KA3010DEA KA3010PS KA3010PE KA3010PE+ KA3010PEA KA3010PEA+**	**KA6005DS KA6005DE KA6005DEA KA6005PS KA6005PE KA6005PE+ KA6005PEA KA6005PEA+**
Voltage Range	0-30V	0-30V	0-60V	0-60V	0-30V	0-60V
Current Range	0-3A	0-5A	0-2A	0-3A	0-10A	0-5A
Load Regulation						
Voltage	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+3mV	≤0.01%+2mV
Current	≤0.1%+5mA ≤0.1%+10mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+20mA	≤0.1%+10mA
Line Regulation						
Voltage	≤0.01%+3mV	≤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	≤0.1%+3mA
Setup Resolution						
Voltage	10mV	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA	1mA
Setup Accuracy (25℃ to -5℃)						
Voltage	≤0.5%+20mV	≤0.5%+20mV	≤0.5%+30mV	≤0.5%+30mV	≤0.5%+20mV	≤0.5%+30mV
Current	≤0.5%+3mA	≤0.5%+5mA	≤0.5%+3mA	≤0.5%+3mA	≤0.5%+10mA	≤0.5%+5mA
Ripple (20-20m)						
Voltage	≤1mVrms	≤2mVrms	≤1mVrms	≤1mVrms	≤2mVrms	≤1mVrms
Current	≤3mVrms	≤3mVrms	≤3mVrms	≤3mVrms	≤5mVrms	≤3mVrms
Temperature Coefficient						
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Read Back Accuracy						
Voltage	10mV	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA	1mA
Read Back Temperature Coefficient						
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Reaction Time						
Voltage Rise	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS
Voltage Drop	≤100mS (10% rated load)	≤100mS (10% rated load)	≤100mS (10% rated load)	≤100mS (10% rated load)	≤100mS (10% rated load)	≤100mS (10% rated load)
Analog Programming: 0-10V control (only for some models)						
External voltage control output voltage			Accuracy and linearity: ±0.5% of rated output current+5mA.			
External voltage control output current			Accuracy and linearity: ±0.1% of rated output voltage+15mv.			

U200 Series

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

INTRODUCTION

With compact size and light weight, U200 Series power supplies' min testing current value is 0.1mA, and they have over-current and over-temperature protection functions. Besides, they can control the output through the output switch, and there are shutdown memory function, which is quite suitable for the maintenance of communication and electronic equipment, and the application on electronic experiments, electronic handworks, and factories, etc..

FEATURES

- High-precision voltage and current display
- Power display
- 0.1mA current display function
- Over-current & over-temperature protection
- Dual fast charging USB port, and max single port is 24W
- Output switch control
- Shutdown memory of the setting values
- Digital-potentiometer & quick-adjustment knob, which can adjust the output quickly and stably

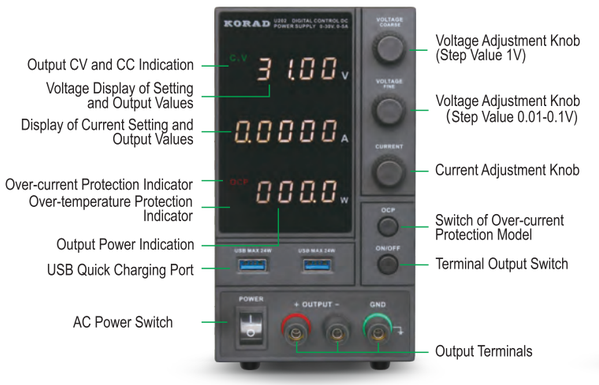
SPECIFICATIONS

Note: the following specifications are measured by preheating the machine for 3 minutes and the ambient temperature is 25℃±5℃.

Model	U202	U203	U205	U206	U210
Voltage	0-30V	0-30V	0-60V	0-60V	0-400V
Current	0-5A	0-10A	0-3A	0-5A	0-1A
Load Regulation					
Voltage	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV
Current	≤0.1%+2mA	≤0.1%+5mA	≤0.1%+2mA	≤0.1%+2mA	≤0.1%+2mA
Line Regulation					
Voltage	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+5mA	≤0.1%+3mA	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
Setup Accuracy(25℃±5℃)					
Voltage	≤0.5%+10mV	≤0.5%+10mV	≤0.5%+10mV	≤0.5%+10mV	≤0.5%+20mV
Current	≤0.5%+5mA	≤0.5%+5mA	≤0.5%+5mA	≤0.5%+10mA	≤0.5%+5mA
Ripple(20-20M)					
Voltage	≤20mVrms	≤20mVrms	≤20mVrms	≤20mVrms	≤30mVrms
Current	≤10mArms	≤10mArms	≤10mArms	≤20mArms	≤10mArms
Temp. Coefficient					
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Read Back Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	C＞0.5A 1mA C＜0.5A 0.1mA	C＞0.5A 1mA C＜0.5A 0.1mA	C＞0.5A 1mA C＜0.5A 0.1mA	C＞0.5A 1mA C＜0.5A 0.1mA	C＞0.5A 1mA C＜0.5A 0.1mA
Read Back Temp. Coefficient					
Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Weight and Dimension					
U202, U203, U205, U206 & U210: 95mm(W)×168(H)×231mm(D)					
U202: 1.9kgs, U203: 2.5kgs, U205: 2kgs, U206: 2.5kgs & U210: 2.5kgs					

PANEL DESCRIPTION

Description of the Operation Panel



Description of Rear Panel

KKG Series

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

INTRODUCTION

KKG Series DC power supply, is a pure linear power supply. And compared with the traditional linear power supply, it uses the jumping-gear regulator scheme of a solid-state relay. Because there is no mechanical jumping relay inside, it avoids the mechanical life limits and mechanical noise problems. Furthermore, it can achieve the applications of high reliability and longevity, and can be composed of a variety of environmental power supplies and test solutions as well.

FEATURES

- Internal solid-state relay is adjusted, and there is no relay switching noise in the entire output voltage range
- Current 0.1ma display function
- Power display function
- External switch quantity system port, which can control output or trigger, and indicate CC or CV
- Two voltage and current adjustment methods, convenient and quick to adjust parameter
- Voltage output sequence function (only for models with communication interface)
- OCP & OVP functions can be set
- 5 groups of voltage and current parameters storage
- Digital screen display, including display of all operating functions
- Output compensation function, which can compensate the voltage drop caused by the output wire
- It can set shutdown memory and non-memory function of the output state
- Configurable USB, RS232, 485 interfaces, etc. (only for models with communication interface)
- Carrying 2 communication protocols: Modbus and SCPI communication protocol (only for Models with communication interface)

SPECIFICATIONS

Note:
The specifications below are tested under the conditions of temperature 25℃±5℃ and the warm-up for 20 minutes.

Appearance			
Model	**KKG305D KKG305P**	**KKG605D KKG605P**	**KKG3010D KKG3010P**
Voltage Range	0–30V	0–60V	0–30V
Current Range	0–5A	0–5A	0–10A
Load Regulation			
Voltage	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+3mV
Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+10mA
Line Regulation			
Voltage	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution			
Voltage	10mV	10mV	10mV
Current	1mA	1mA	1mA
Setup Accuracy (25℃ to ±5℃)			
Voltage	≤0.5%+20mV	≤0.5%+30mV	≤0.5%+20mV
Current	≤0.5%+5mA	≤0.5%+5mA	≤0.5%+10mA
Ripple (20–20m)			
Voltage	≤2mVrms	≤1mVrms	≤2mVrms
Current	≤3mVrms	≤3mVrms	≤5mVrms
Tem. Coefficient			
Voltage	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm
Read Back Resolution			
Voltage	10mV	10mV	10mV
Current	1mA (C≤0.5A:0.1mA)	1mA (C≤0.5A:0.1mA)	1mA (C≤0.5A:0.1mA)
Read Back Temperature Coefficient			
Voltage	≤150ppm	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm	≤150ppm
Reaction Time			
Voltage Rise	≤100mS	≤100mS	≤100mS
Voltage Drop	≤100mS (10% rated load)	≤100mS (10% rated load)	≤100mS (10% rated load)
Interface (for programmable models only)		RS232, USB	
Accessories		User manual *1, Power cord*1, USB cable (for programmable Models KKG305P, KKG3010P & KA605P)	
Weight and Dimension		110mm(W)*160mm(H)*305mm(D): KKG605x8.1kg & KKG3010x8.1kg 110mm(W)*160mm(H)*262mm(D): KKG305x4.8kg	

KWR100 Series

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

INTRODUCTION

KWR100 Series programmable DC power supply with the wide range voltage and current, can provide the wide range voltage and current like 30V/30A & 60V/15A. And it can improve the users' equipment utilization and reduce the duplicate investment of different specifications of power supplies, which, that is, significantly reduces the input cost. Furthermore, there are functions like OVP (Over Voltage Protection),OCP(Over Current Protection) and Over Temperature Protection, which can setup the rising slope of the voltage to avoid instantaneous surge. Besides, interfaces LAN, USB and RS232 are also included and they not only achieve conventional DC power supply and test applications, but also realize a variety of high-speed and dynamic test programs and some special applications, for example, high-current contact life test, battery charge test, and high-current LED characteristics test.

FEATURES

- 1mV/1mA high accuracy resolution
- Programmable DC power supply
- Interface: LAN & USB & RS232
- Multiple communication rates
- 30V/30A & 60V/15A 2 types of wide range voltage and current for the users to choose
- Compact Size, high power ratio
- Low Ripple and noise, linear output
- No internal relay switch, no replay noise
- Full-scale output without shifting gears and uninterrupted output
- Short-circuit test environment, such as high-current contact life test
- Convenient fast recall
- Current, voltage and temperature protections
- Adjustable voltage rise slope
- Providing Labview and C++ driver and communication examples

PANEL DESCRIPTION

OVP (EXT TRIG) — OVP function and External trigger function

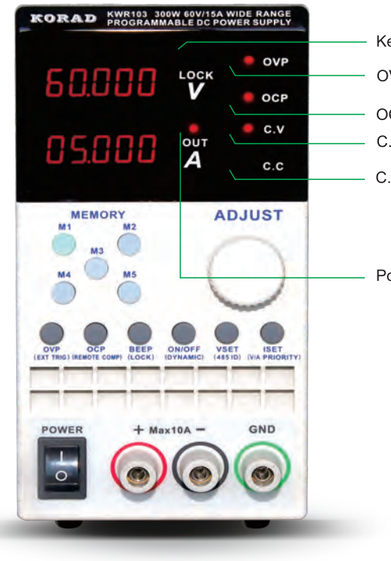
OCP (REMOTE COMP) — OCP function and Remote compensation function

LOCK (BEEP) — Keylock function and Buzzer setting function

ON/OFF (DYNAMIC) — on/off output and Dynamic output function

VSET (485 ID) — RS485 ID setting function

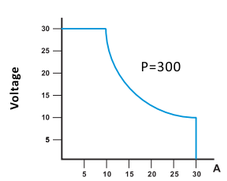
ISET (V/A) PRIORITY — Voltage and current priority function



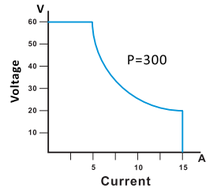
SPECIFICATIONS

Model	KWR102	KWR103
Power	300W	300W
Voltage	0–30V	0–60V
Current	0–30A	0–15A
Load Regulation		
Voltage	≤0.01%+1mV	≤0.01%+1mV
Current	≤0.1%+3mA	≤0.1%+3A
Line Regulation		
Voltage	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution		
Voltage	1mV	1mV
Current	1mA	1mA
Setup Accuracy(25℃±5℃)		
Voltage	≤0.5%+3mV	≤0.5%+5mV
Current	≤0.5%+3mA	≤0.5%+3mA
Ripple(20–20M)		
Voltage	≤1mVrms+0.03% of current output	≤1mVrms+0.03% of current output
Current	≤5mArms	≤5mArms
Voltage Rise Time		
Voltage	≤50ms	≤50ms
Current	≤50ms	≤50ms
Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Read Back Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Accessories	User manual, power cord, software CD, USB cable & LAN cable	
Interfaces	USB, RS232 & LAN	
Weight and Dimension	87mm(W)*175mm(H)*290mm(D); 2.2KGS	

Voltage and current output of wide range, multi-range operation

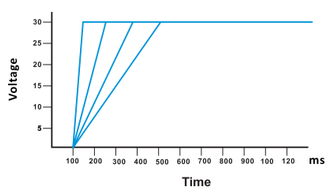


30V/30A Series work area

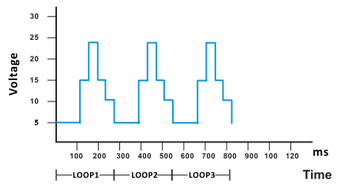


60V/15A Series work area

The output voltage can adjust the rising slope



Fast sequence output



KC Series

Multiple Channel DC Power Supply

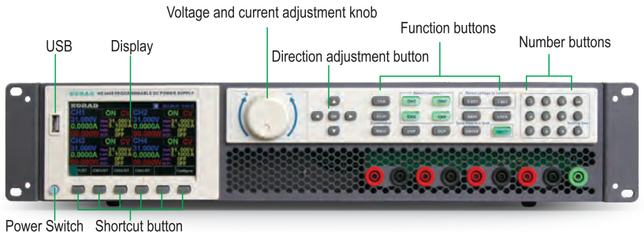
INTRODUCTION

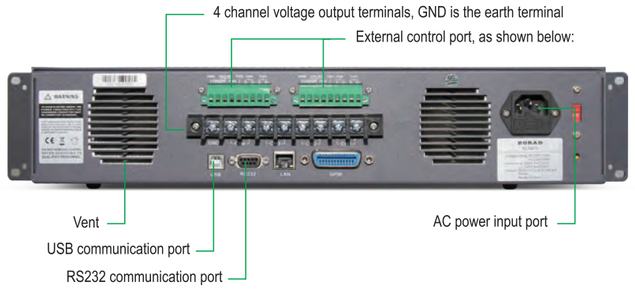
KC Series four–channel DC power supplies can provide pure linear output of 4 isolated channels with features such as stability, free interference, low ripple and low noise. And the power supplies havefour–channel cooperative output characteristics,which can realize multi–channel various sequence wave output and complete complex test requirements. Moreover, the output voltage and current canbe observed through the oscilloscope of the LCD,and the test data can be directly imported andexported through the U disk.

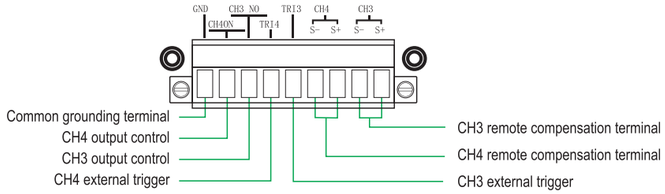
FEATURES

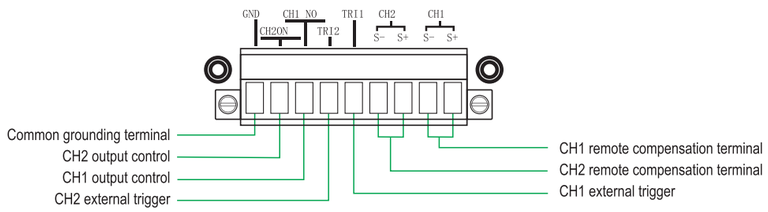
- Four independent output channels
- LIST programmable output sequence, 100 consecutive different settings
- LIST model and normal model can be switched automatically with one button
- Oscilloscope function for simultaneous display of voltage and current on four channels
- Oscilloscope screen capture via USB access to U disk
- U disk import and export output table data, and you can edit it by computer EXCEL
- Low chopping and low noise
- High resolution and prscision with 5–digit display
- Remote measurement function
- External trigger control and switch control
- Supporting OVP, OCP and temperature protection
- Built–in USB/RS232/GPIB/LAN communication interfaces

PANEL DESCRIPTION





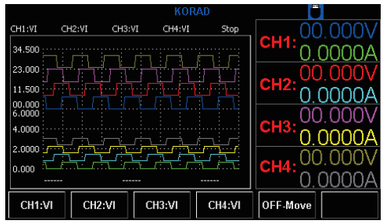




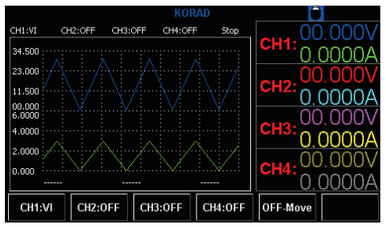
SPECIFICATIONS

Note:
The specifications below are tested under the conditions of temperature 25℃±5℃ and the warm-up for 10 minutes.

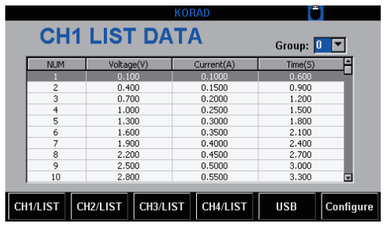
Model	KC3405	KC6403
Voltage	0-30V*4	0-60V*4
Current	0-5A*4	0-3A*4
Load Regulation		
Voltage	≤1mV	≤1mV
Current	≤1A	≤1mA
Line Regulation		
Voltage	≤0.01%+1mV	≤0.01%+1mV
Current	≤0.1%+1mA	≤0.1%+1mA
Setup Resolution		
Voltage	1mV	1mV
Current	0.1mA	0.1mA
Read Back Resolution		
Voltage	1mV	1mV
Current	0.1mA	0.1mA
Setup Accuracy(25℃±5℃)		
Voltage	≤0.005%+2mV	≤0.005%+2mV
Current	≤0.05%+1mA	≤0.05%+1mA
Ripple(20-20M)		
Voltage	≤1mVrms	≤2mVrms
Current	≤3mArms	≤3mArms
Temp. Coefficient		
Voltage	≤100ppm	≤100ppm
Current	≤100ppm	≤100ppm
Read Back Temp. Coefficient		
Voltage	≤100ppm	≤100ppm
Current	≤100ppm	≤100ppm
Accessories	User manual*1, Power cord*1	
Weight and Dimension	430mm(W)*88mm(H)*440(D), 16.5Kgs	



Four-channel sequence wave output



Various dynamic waveform outputs



Simple LIST sequence setting interface

Export of U disk data

KS Series

Wide range DC power supply

INTRODUCTION

KS Series DC power supplies with wide range output of voltage and current, can be used for a wide range of voltage and current applications. And there is built-in programmable sequence output function, which can output dynamic voltage and current. Furthermore, power supplies are not only equipped with built-in USB/RS232/GPIB/LAN communication interfaces, but also provides analog control interface and switching control interface, which can be composed of various automatic application schemes as needed.

FEATURES

- Setting up the voltage and current rise slope
- Wide range outputs of voltage and current
- Various models (source CV/CC/CP,load CC/CP), independent edge setting, adjustable rise and fall times
- LIST sequence programming output
- Low chopping and low noise
- High resolution and precision
- Remote measurement function
- Analog control interface
- Panel LOCK function
- Over voltage and Over current Protection
- Built-in USB/RS232/GPIB/LAN communication interfaces

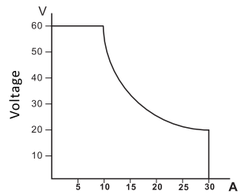
REAR PANEL OVERVIEW

SPECIFICATIONS

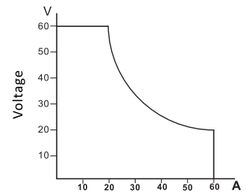
Note:
The specifications below are tested under the conditions of temperature 25℃±5℃ and the warm-up for 10 minutes.

Model	KS6030	KS6060
Power	1200W	1800W
Voltage	0-60V	0-60V
Current	0-30A	0-60A
Load Regulation		
Voltage	≤0.01%+5mV	≤0.01%+5mV
Current	≤0.1%+5mA	≤0.1%+5mA
Line Regulation		
Voltage	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution		
Voltage	1mV	1mV
Current	0.1mA	0.1mA
Read Back Resolution		
Voltage	1mV	1mV
Current	0.1mA	0.1mA
Setup Accuracy(25℃±5℃)		
Voltage	≤0.5%+3mV	≤0.5%+5mV
Current	≤0.5%+3mA	≤0.5%+3mA
Ripple(20-20M)		
Voltage	≤1mVrms	≤2mVrms
Current	≤3mArms	≤3mArms
Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Read Back Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Accessories	User manual*1, Power cord*1	
Weight and Dimension	430mm(W)*88mm(H)*440(D), 8.5Kg	

Wide range outputs of voltage and current

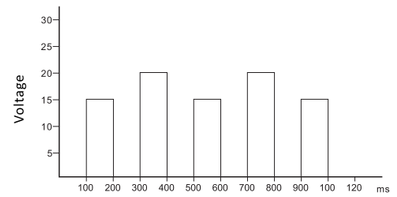


60V/30A Series work area



60V/60A Series work area

LIST sequence programming output



KEL2000 Series

DC Electronic Load

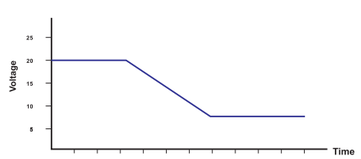
INTRODUCTION

The KEL2000 Series is an intelligent programmable DC single-channel electronic load from 300W, 500W and 1000W stand-alone applications and up to 50KW load and machine applications, which is suitable for middle & low power and high-power power test loads. And it uses a liquid crystal LCD panel display interface and an embedded spreadsheet, which is very simple operations and a clear man-machine interface.

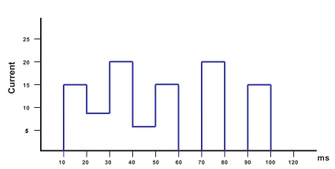
FEATURES

- Dynamic mode: up to 10KHZ
- Resoulution of voltage and current:0.1mV/0.1mA
- Waveform display function of voltage and current
- U disk storage of waveform data
- Interface: LAN & USB & RS232 & GPIB (GPIB is optional)
- Four working modes: CV/CC/CR/CP
- Remote sensing function
- Battery test, automatic test, OPP test, OCP test functions
- Storage for 100 sets
- Short-circuit function
- Current monitoring funciton
- Power off memory function
- With rotary coding switch to make an easy operation

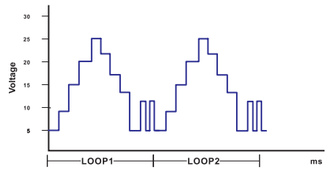
CHARACTERISTICS OF LOAD WAVEFORM



Battrey discharge function

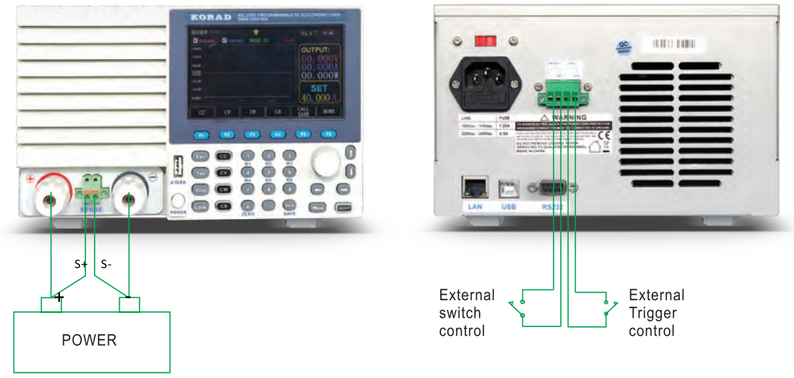


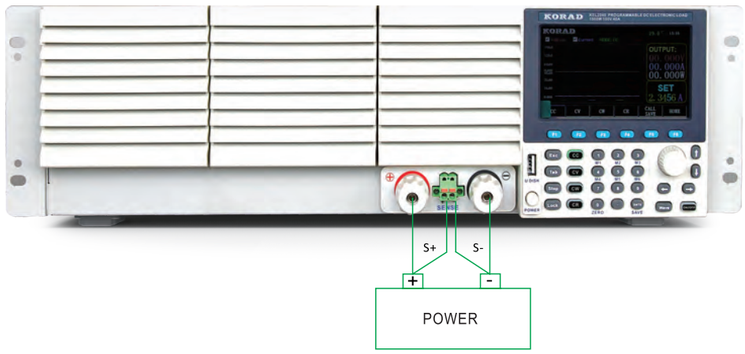
Continuous transisent operation

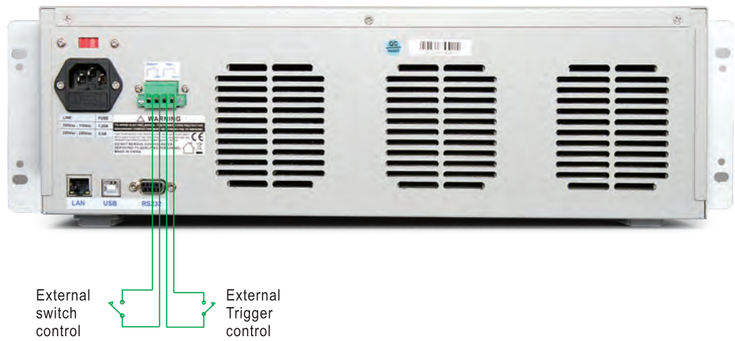


Fast sequence

PANEL DESCRIPTION







SPECIFICATIONS

Note: Specifications are subject to change without notice.

Appearance

Model		KEL2010		KEL2020		KEL2030		KEL2040		KEL2050		KEL2060		KEL2070	
Input Rating	POWER	300W		500W		1000W		1500W		1200W		2400W		4800W	
	Voltage	0–150V		0–150V		0–150V		0–150V		0–80V		0–80V		0–80V	
	Current	0–40A		0–40A		0–40A		0–40A		0–85A		0–170A		0–340A	
CC mode	Range	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)	
CV mode	Range	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V
	Resolution							0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)	
CR mode	Range	0.05Ω–10Ω	10Ω–7.5KΩ	0.05Ω–10Ω	10Ω–7.5KΩ	0.2Ω–7.5KΩ		0.2Ω–7.5KΩ		0.2Ω–7.5KΩ		0.2Ω–7.5KΩ		0.2Ω–7.5KΩ	
	Resolution	0.1Ω		0.1Ω		16 bit		16 bit		16 bit		16 bit		16 bit	
	Accuracy	±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)	
CW mode	Range	300W		500W		1000W		1500W		1000W		1500W		1500W	
	Resolution	0.01W		0.01W		0.01W		0.01W		0.01W		0.01W		0.01W	
	Accuracy	±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)	
Slope	Range	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A
	Rising	0.0001–0.3A/us	0.001–1.5A/us	0.0001–0.3A/us	0.001–1.5A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us
	Falling	0.0001–0.3A/us	0.001–1.5A/us	0.0001–0.3A/us	0.001–1.5A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us	0.0001–0.3A/us	0.001–2A/us
Voltage measurement	Range	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V	0–18V	0–150V
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% of set+0.025% off.s)		±(0.05% of set+0.025% off.s)		±(0.03% of set+0.025% off.s)		±(0.03% of set+0.025% off.s)		±(0.03% of set+0.025% off.s)		±(0.03% of set+0.025% off.s)		±(0.03% of set+0.025% off.s)	
Current measurement	Range	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A	0–3A	0–40A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)		±(0.05% of set+0.045% off.s)	
Power measurement	Range	300W		500W		1000W		1500W		1000W		1500W		1500W	
	Resolution	0.01W		0.01W		0.1W		0.1W		0.1W		0.1W		0.1W	
	Accuracy	±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)		±(0.1% of set+0.1% off.s)	
Over power protection		330W		550W		1050W		1575W		1050W		1575W		1575W	
Over current protection		45mA		45mA		42mA		42mA		42mA		42mA		42mA	
Over voltage protection		125Ω		125Ω		155V		155V		155V		155V		155V	
Over temperature protection		85℃		85℃		85℃		85℃		85℃		85℃		85℃	
Input impedance		150Ω		150Ω		>150KΩ		150KΩ		>150KΩ		>150KΩ		150KΩ	
Dimention(W*D*H)		215mm*150mm*400mm				430mm*388mm*150.5mm									
Accessories		User manual, power cord, software CD, USB cable & RS232 cable				User manual, power cord, software CD, USB cable & RS232 cable									
Interfaces		USB, RS232, LAN & GPIB(GPIB is optional)				USB, RS232, LAN & GPIB (GPIB is optional)									

KEL100 Series

DC Electronic Load

INTRODUCTION

KEL100 Series (150W~300W), single-channel programmable DC electronic loads, are designed for middle & high-end applications. They can be offered as multiple solutions according to customer's need. The online voltage measurements and adjustments or simulate short circuit test usig the simple keypad on the front panel, can be used by the end users. KEL100 Series DC loads are a bersatile instrument for static and dynamic testing of power supplies, batteries, DC-DC versatile , and battery chargers, which provides user the best testing solution.

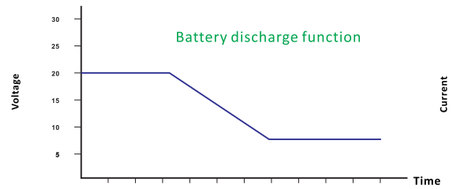
FEATURES

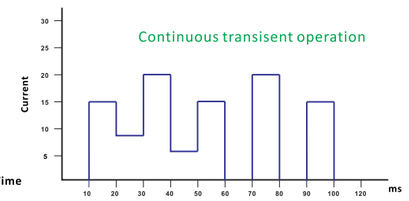
- Dynamic mode: up to 10KHZ
- Resolution of voltage and current: 0.1mV/0.1mA
- Interface: LAN & USB & RS232
- Four working modes: CV/CC/CR/CP
- Remote sensing function
- Battery test, automatic test, OPP test, OCP test functions
- Storage for 100 sets
- Short-circuit function
- Current monitoring funciton
- Power off memory function
- With rotary coding switch to make an easy operation

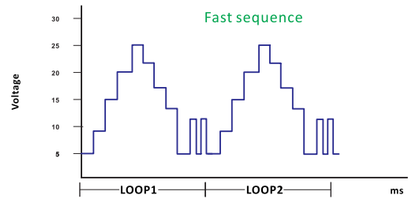
REAR PANEL OVERVIEW

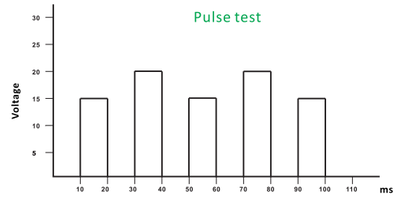
SPECIFICATIONS

Model		KEL102		KEL103		KEL104		KEL105	
Input Rating	POWER	150W		300W		250W		300W	
	Voltage	0–120V		0–120V		0–120V		0–150V	
	Current	0–30A		0–30A		0–60A		0–30A	
CC mode	Range	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% + 0.05% FS)		±(0.05% + 0.05% FS)		±(0.05% + 0.045% FS)		±(0.05% + 0.045% FS)	
CV mode	Range	0–18V	0–120V	0–18V	0–120V	0–18V	0–120V	0–18V	0–120V
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05% + 0.25% FS)		±(0.05% + 0.25% FS)		±(0.05% + 0.025% FS)		±(0.05% + 0.025% FS)	
CR mode	Range	0.05Ω–7.5KΩ		0.05Ω–7.5KΩ		0.05Ω–7.5KΩ		0.05Ω–7.5KΩ	
	Resolution	16 bit		16 bit		16 bit		16 bit	
	Accuracy	0.05% –0.1s		0.015% –0.1s		0.05% –0.025s		0.05% –0.025s	
CW mode	Range	150W		300W		150W		300W	
	Resolution	0.01W		0.01W		0.01W		0.01W	
	Accuracy	± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)	
Slope	Range	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A
	Rising	0.0001–0.15A/us	0.0001–1.5A/us	0.0001–0.15A/us	0.0001–1.5A/us	0.0001–0.3A/us	0.0001–1.5A/us	0.0001–0.3A/us	0.0001–1.5A/us
	Falling	0.0001–0.15A/us	0.0001–1.5A/us	0.0001–0.15A/us	0.0001–1.5A/us	0.0001–0.3A/us	0.0001–1.5A/us	0.0001–0.3A/us	0.0001–1.5A/us
Voltage measurement	Range	0–18V	0–120V	0–18V	0–120V	0–18V	0–120V	0–18V	0–120V
	Resolution	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
	Accuracy	±(0.05% + 0.05% SF)		±(0.0025% + 0.0025% SF)		±(0.003% + 0.025% SF)		±(0.003% + 0.025% SF)	
Current measurement	Range	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A	0–3A	0–30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	± (0.1% + 0.1% FS)		± (0.05% + 0.05% FS)		± (0.05% + 0.045% FS)		± (0.05% + 0.045% FS)	
Power measurement	Range	150W		300W		150W		300W	
	Resolution	0.01W		0.01W		0.01W		0.01W	
	Accuracy	± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)		± (0.1% + 0.1% FS)	
Over power protection		160W		320W		160W		320W	
Over current protection		32A		32A		32A		32A	
Over voltage protection		125V		125V		125V		125V	
Over temperature protection		85℃		85℃		85℃		85℃	
Input impedance		150KΩ		150KΩ		150KΩ		150KΩ	
Dimention		107mm*215mm*386mm				214mm*354mm*88.5mm			









KD3300 Series

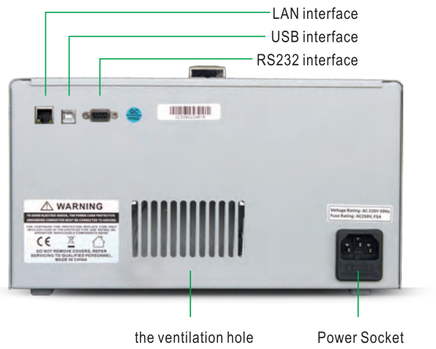
DC Power Supply

INTRODUCTION

KD3300 multi-channel Series DC power supply uses digital encoders and the button control, which has the simple and convenient operation, safe and reliable features. And there are Series and parallel output operations and triple-channel adjustable control, that is, CH1 and CH2 output 0-30V while CH3 can outpu tthree voltage stalls: 2.5V, 3.3Vand 5V. In addition, there is the output switch and the shutdown memory function. And the fine and coarse adjustments can be achieved by pressing the knobs. Furthermore, the knobs have 2 operating models: the continuous adjustment and the lock adjustment, which can make the operation convenient and reliable, that is, the keyboard can be locked to avoid improper operation.Regarding interfaces, LAN, USB & RS232 are included with a wealth of SCPI instructions, which can provide the Labview driver and programming examples to facilitate engineers to set up the test system quickly.

FEATURES

- 0-30V*2, 5V, 3.3V, 2.5V/3A*1
- 10mV/1mA high accuracy resolution DC power supply
- shutdown memory
- Complete digital control
- Industrial grade, with load for a long time
- Intelligent temperature-controlled fan
- Compact design
- Over-current protection
- Output ON/OFF control
- Knob LOCK function to avoid improper operation
- Interfaces: LAN, USB & RS232

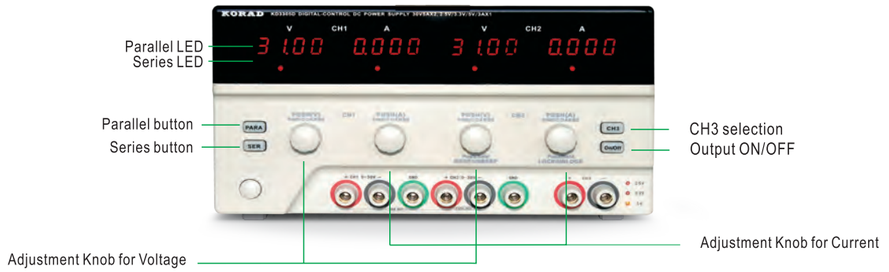


SPECIFICATIONS

Note: Specifications are subject to change without notice.

Model	KD3303D KD3303P	KD3305D KD3305P
Voltage Range	0-30V/0-3A*2	0-30V/0-5A*2
Current Range	5V, 3.3V, 2.5V/3A*1	5V, 3.3V, 2.5V/3A*1
Load Regulation		
Voltage	≤0.01%+3mV	≤0.01%+5mV
Current	≤0.1%+5mA	≤0.1%+10mA
Line Regulation		
Voltage	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setup Accuracy (25℃ to ±5℃)		
Voltage	≤0.5%+20mV	≤0.5%+20mV
Current	≤0.5%+5mA	≤0.5%+10mA
Ripple (20-20m)		
Voltage	≤1mVrms	≤2mVrms
Current	≤3mArms	≤3mArms
Temperature Coefficient		
Voltage	≤100ppm+10mV	≤100ppm+10mV
Current	≤100ppm+5mA	≤100ppm+5mA
Read Back Accuracy		
Voltage	10mV	10mV
Current	1mA	1mA
Read Back Temp. Coefficient		
Voltage	≤100ppm+10mv	≤100ppm+10mv
Current	≤100ppm+5mA	≤100ppm+5mA
Reaction Time(10% Reted Load)		
Voltage Rise	≤100mS	≤100mS
Voltage Drop	≤100mS	≤100mS
Load Regulation of Parallel	≤0.1%+0.2V	
Load Regulation of Series	≤0.1%+0.2V	
CH3 Specifications		
Voltage Accuracy	±50mV	
Load Regulation	±50mV	
Accessories	User manual,power cord (KD3303D & KD3305D) User manual, power cord, USB cable & software CD (KD3303P & KD3305P)	
Interfaces (for programmable Models KD3303P & KD3305P)	USB, RS232 & LAN	
Weight and Dimension	7.8kg / 146mm(W)*252mm(H)*375mm(D)	10.33kg / 146mm(W)*252mm(H)*375mm(D)

PANEL DESCRIPTION



KD3000/6000 Series

DC Power Supply

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

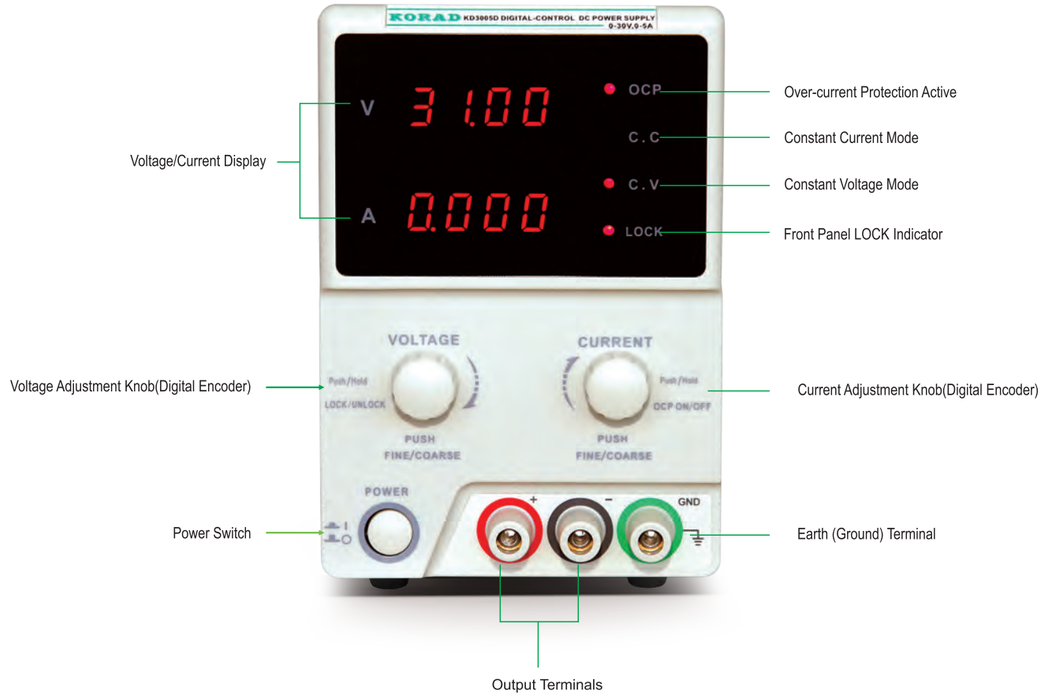
INTRODUCTION

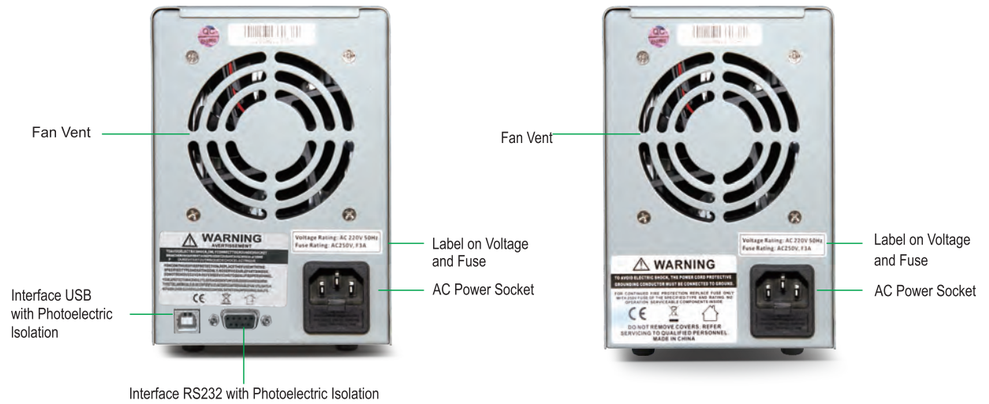
KD3000/6000 Series are digital control and programmable DC power supplies with encoder–controlled, and led by KORAD. The programmable power supplies are built in the standard interfaces – USB & RS232, which makes the remote communications much more convenient and faster. And the 2 adjustment modes of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

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

PANEL DESCRIPTION





SPECIFICATIONS

Note: The specifications below are tested under the conditions of temperature 25℃ ±5℃ and the warm-up for 20 minutes.

Appearance						
Model		**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	≤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
Line Regulation	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
Setup Resolution	Voltage	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA
Setup Accuracy (25℃ to ±5℃)	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
Ripple (20–20m)	Voltage	≤1mVrms	≤2mVrms	≤1mVrms	≤1mVrms	≤1mVrms
	Current	≤3mArms	≤3mArms	≤3mArms	≤1mArms	≤3mArms
Temp. Coefficient	Voltage	150ppm	150ppm	≤150ppm	≤150ppm	≤150ppm
	Current	150ppm	150ppm	≤150ppm	≤150ppm	≤150ppm
Read Back Accuracy	Voltage	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA
Read Back Temp. Coefficient	Voltage	150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
	Current	150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Reaction Time	Voltage Rise	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS
	Voltage Drop	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)
Interface		RS232, USB (for programmable Models KD3003P, KD3005P, KD6002P, KD6003P & KD6005P)				
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: 110mm(W)*156mm(H)*260mm(D) KD6005: 110mm(W)*156mm(H)*300mm(D) KD3003x3.5kg, KD3005x4.25kg, KD6002x4.05kg, KD6003x4.38kg & KD6005x7.88kg				

KA3000/6000 Series

Digital Control and Programmable DC Power Supply

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

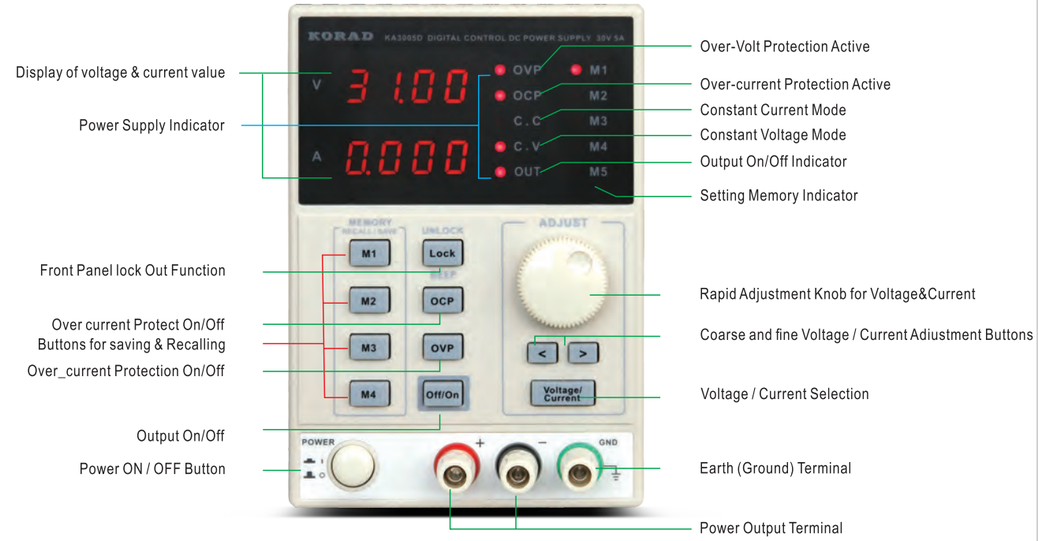
INTRODUCTION

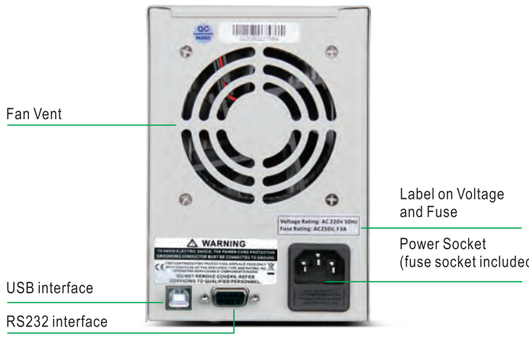
KORAD TECHNOLOGY CO.,LTD launches the KA Series digital control and programmable regulated DC power supplies with industrial–grade performance, which is complete digital control, encoder voltage and current adjustment and fast recall. They can be set to overvoltage and overcurrent protection and there is intelligent temperature–controlled fan. Above all, the aborative circuit design and neat inside construction ensure the stability and reliability of the machine. Compact and portable single DC power supplies and dual DC power supplies from 30V–100V / 2A–10A are supplied.

FEATURES

- Complete digital control / programmable
- 4–digit display
- Intelligent temperature–controlled fan with speed controlled by heat
- temperature and output power
- Compact Design
- 10 mV/1mA resolution
- Low noise and ripple
- CV/ CC automatical switching
- Output ON/OFF control
- Complete digital panel operation
- 5 sets of parameters can be stored inside for fast recall
- Fine & coarse adjustment for voltage / current control
- Software calibration
- Beep alarm output
- Panel LOCK function
- Settable OCP and OVP
- Reverse polarity protection
- Built–in control interfaces USB / RS232 with photoelectric isolation
- Industrial grade, with load for a long time.

PANEL DESCRIPTION





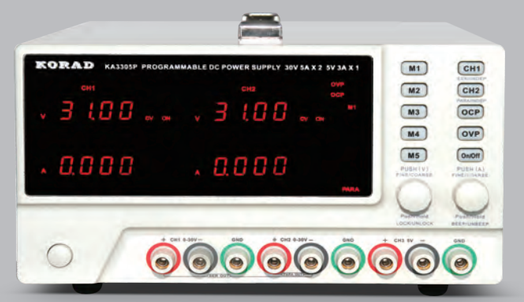
SPECIFICATIONS

Note:
The specifications below are tested under the conditions of temperature 25℃ ± ℃ and the warm-up for 20 minutes.

Appearance							
Model		**KA3003D KA3003P**	**KA3005D KA3005P**	**KA6002D KA6002P**	**KA6003D KA6003P**	**KA6005D KA6005P**	**KA3010D KA3010P**
Voltage Range		0-30V	0-30V	0-60V	0-60V	0-60V	0-30V
Current Range		0-3A	0-5A	0-2A	0-3A	0-5A	0-10A
Load Regulation	Voltage	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+2mV	≤0.01%+3mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+20mA
Line Regulation	Voltage	≤0.01%+3mV	≤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	≤0.1%+3mA
Setup Resolution	Voltage	10mV	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA	1mA
Setup Accuracy (25℃ to ±5℃)	Voltage	≤0.5%+20mV	≤0.5%+20mV	≤0.5%+30mV	≤0.5%+30mV	≤0.5%+30mV	≤0.5%+20mV
	Current	≤0.5%+5mA	≤0.5%+10mA	≤0.5%+5mA	≤0.5%+10mA	≤0.5%+5mA	≤0.5%+2mA
Ripple (20-20m)	Voltage	≤1mVrms	≤2mVrms	≤1mVrms	≤1mVrms	≤1mVrms	≤2mVrms
	Current	≤3mArms	≤3mArms	≤3mArms	≤3mArms	≤3mArms	≤2mArms
Temp. Coefficient	Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
	Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Read Back Accuracy	Voltage	10mV	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA	1mA
Read Back Temp. Coefficient	Voltage	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
	Current	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm	≤150ppm
Reaction Time	Voltage Rise	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS	≤100mS
	Voltage Drop	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)	≤100mS (10% Rated load)
Interface		RS232, USB (for programmable models KA3003P, KA3005P, KA6002P, KA6003P, KA3010P & KA6005P)					
Accessories		User manual,power cord (KA3003D, KA3005D, KA3010D, KA6002D, KA6003D & KA6005D) User manual, power cord, USB cable & software CD (KA3003P, KA3005P, KA3010P, KA6002P, KA6003P & KA6005P)					
Weight and Dimension		KA3003, KA3005, KA6002, KA6003: 110mm(W)*156mm(H)*260mm(D) KA6005 & KA3010: 110mm(W)*156mm(H)*300mm(D) KA3003x3.7kgs, KA3005x4.32kgs, KA6002x4.21kgs, KA6003x4.5kgs, KA6005x8kgs & KA3010x8.3kgs					

KA3300 Series

MULTIPLE CHANNEL Digital Control and Programmable DC Power Supply



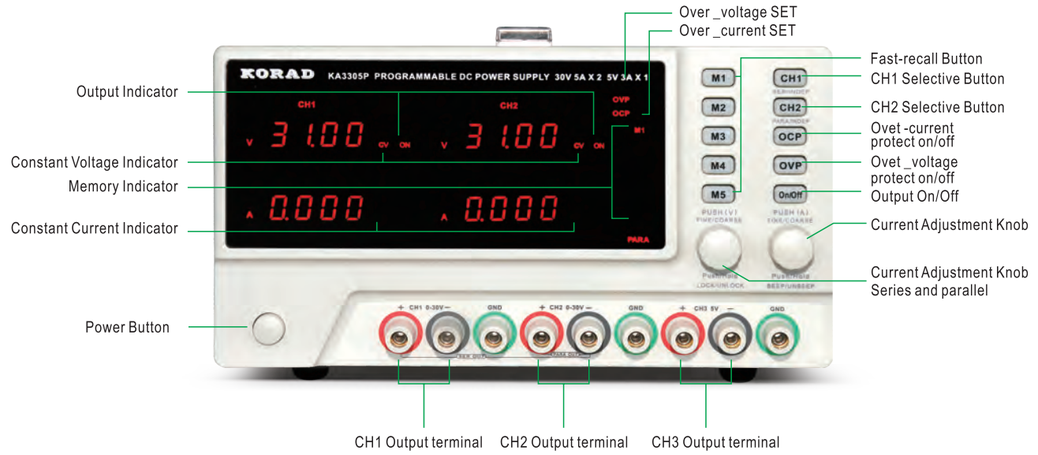
INTRODUCTION

KA3300 Series multiple channel digital control and programmable DC power supplies take the advantage of KORAD consistent top quality in the field of R&D and production of the power supplies. And there are many superiorities, such as digital panel control, large LED, bright LED indicators, high output resolution, 5 sets of parameters for fast recall, USB & RS232 remote control, intelligent temperature-controlled fan and so on. In addition, they are easy to operate and support many panel settings. With these advantages, KA3300 Series MULTIPLE CHANNEL power supplies will be a shining star in the power supply market.

FEATURES

- Complete digital control and programmable DC power supply
- 10 mV/ 1 mA high-accuracy and high-resolution output
- Low noise and ripple
- Triple channel programmable output control
- Serial and parallel functions
- 5 sets of parameters can be stored inside for fast recall
- Settable OVP & OCP functions
- Built-in control interfaces USB / RS232 with photoelectric isolation
- Software supervision via PC
- The remote measurement terminal compensates the voltage drop of the wire
- Analog control interface
- Industrial grade, with load for a long time.

PANEL DESCRIPTION



KA3300 Series multiple channel series power supplies provide 5memories with instant recall, and they can be setted as 2 modes –output OFF and output ON when recalling, which is convenient to users. Voltage and current can be adjusted by the rapid adjustment of the encoder, which can set different resolutions. Furthermore.this multiple channel Series also provide OVP and OCP functions and the OVP & OCP values can be setted through the buttons on the front panel. When OVP occurs the output will cut off immediately and then OVP indicator will blink to alarm. And by pressing the knob for several seconds to enable the panel LOCK function.

SPECIFICATIONS

Note:
The specifications below are tested under the conditions of temperature 25℃ ± 5℃ and the warm–up for 20 minutes.

Model	KA3303D KA3303P	KA3305D KA3305P
Voltage Range	0–30V/0–3A*2	0–30V/0–5A*2
Current Range	5V/3A*1	5V/3A*1
Load Regulation		
Voltage	≤0.01%+2mV	≤0.01%+2mV
Current	≤0.1%+5mA	≤0.1%+10mA
Line Regulation		
Voltage	≤0.01%+3mV	≤0.01%+3mV
Current	≤0.1%+3mA	≤0.1%+3mA
Setup Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setup Accuracy (25℃ to ±5℃)		
Voltage	≤0.5%+20mV	≤0.5%+20mV
Current	≤0.5%+5mA	≤0.5%+10mA
Ripple (20–20m)		
Voltage	≤1mVrms	≤2mVrms
Current	≤3mArms	≤3mArms
Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Read Back Accuracy		
Voltage	10mV	10mV
Current	1mA	1mA
Read Back Temp. Coefficient		
Voltage	≤150ppm	≤150ppm
Current	≤150ppm	≤150ppm
Reaction Time(10% Reted Load)		
Voltage Rise	≤100mS	≤100mS
Voltage Drop	≤100mS (10% Rated Load)	≤100mS (10% Rated Load)
Interfaces (for programmable models KA3303P & KA3305P)	USB, RS232	
Accessories	User manual, power cord (KA3303D & KA3305D) User manual, power cord, USB cable & software CD (KA3303P & KA3305P)	
Weight and Dimension	7.8kgs / 220mm(W)*156mm(H)*260mm(D)	10.33kgs / 220mm(W)*156mm(H)*260mm(D)