

KORAD

KA3000/ 6000 MULTIPLE CHANNEL Digital Control and Programmable DC Power Supply

Industrial Grade



KA3000/6000 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 RS485 remote control, intelligent temperature-controlled fan and so on. In addition, they are easy to operate and support many panel settings. With these advantages, KA3000/6000 MULTIPLE CHANNEL power supplies will be a shining star in the power supply market.



Application

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

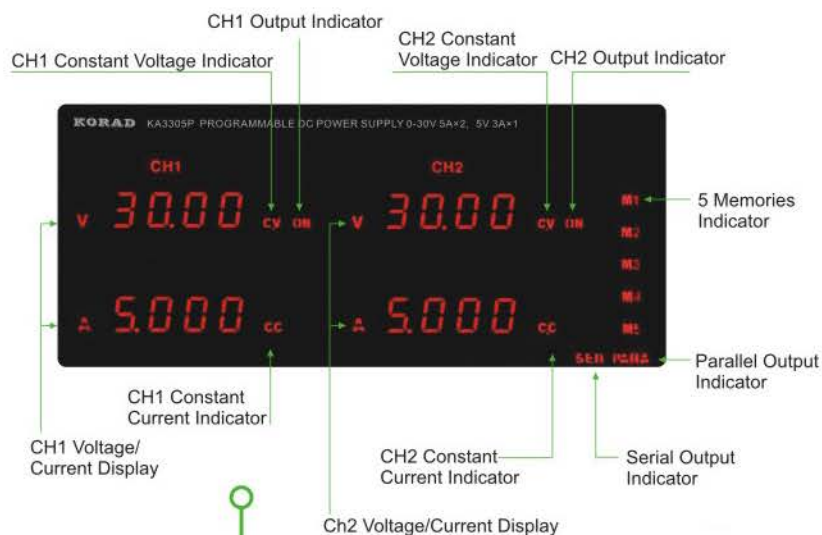
Main Features

- 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 function
- 5 sets of parameters can be stored inside for fast recall
- 100 stored parameters inside for programmable recall
- Settable OVP & OCP functions
- Built-in control interfaces USB / RS232 / RS485 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.

Software Testing



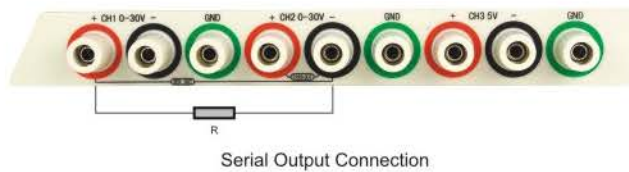
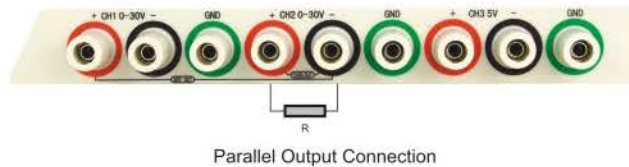
Output Indicators



KA3000/6000 multiple channel series power supplies provide 5 memories with instant recall, and they can be set 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 set 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.



Through the inner serial and parallel functions, the output functions of them can be realized.



KA..D Version

Rear Panel Without Interfaces



KA..P Version

USB Control Interface → USB

RS232 Control Interface → RS232



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	KA3303	KA3305
Voltage /Current Range	0-30V/3A*2 5V/3A*1	0-30V/5A*2 5V/3A*1
Load Regulation		
Voltage	$\leq 0.01\% + 2\text{mV}$	$\leq 0.01\% + 2\text{mV}$
Current	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$
Line Regulation		
Voltage	$\leq 0.01\% + 3\text{mV}$	$\leq 0.01\% + 3\text{mV}$
Current	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$
Setup Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setup Accuracy ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)		
Voltage	$\leq 0.5\% + 20\text{mV}$	$\leq 0.5\% + 20\text{mV}$
Current	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$
Ripple(20-20M)		
Voltage	$\leq 1\text{mVrms}$	$\leq 2\text{mVrms}$
Current	$\leq 3\text{mA}_{\text{rms}}$	$\leq 3\text{mA}_{\text{rms}}$
Temp. Coefficient		
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Read Back Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Read Back Temp. Coefficient		
Voltage	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Current	$\leq 150\text{ppm}$	$\leq 150\text{ppm}$
Reaction Time		
Voltage Rise	$\leq 100\text{mS}$	$\leq 100\text{mS}$
Voltage Drop	$\leq 100\text{mS}$ (10% Rated load)	$\leq 100\text{mS}$ (10% Rated load)
Interface		
Optional Interfaces (for programmable models only): RS232, USB		
Accessories		
User manual *1, ; Power cord *1		
Weight and Dimension		
KA3303: 6.76 kg / 220(W)*156(H)*380(D) KA3305: 9.18 kg / 220(W)*156(H)*380(D)		