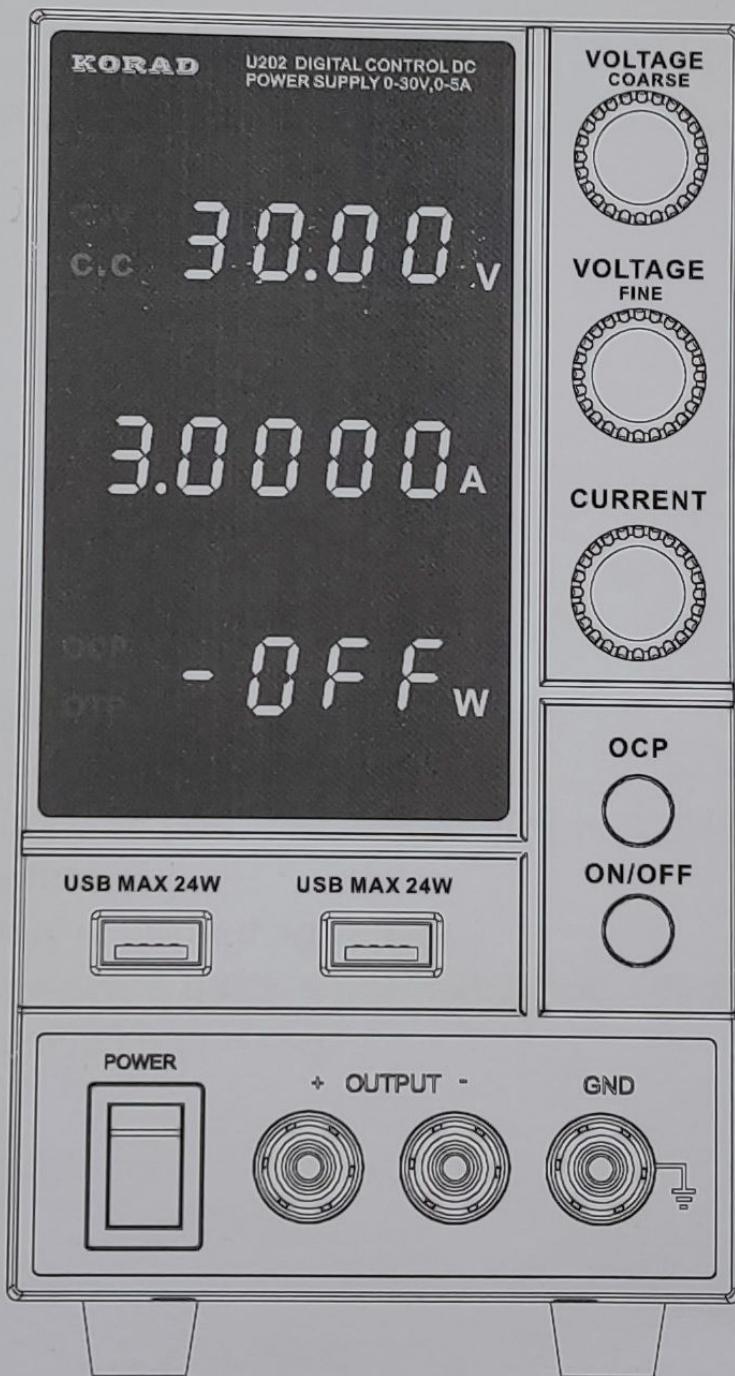


U200 Series Digital Control & Regulated DC Power Supply



User Manual

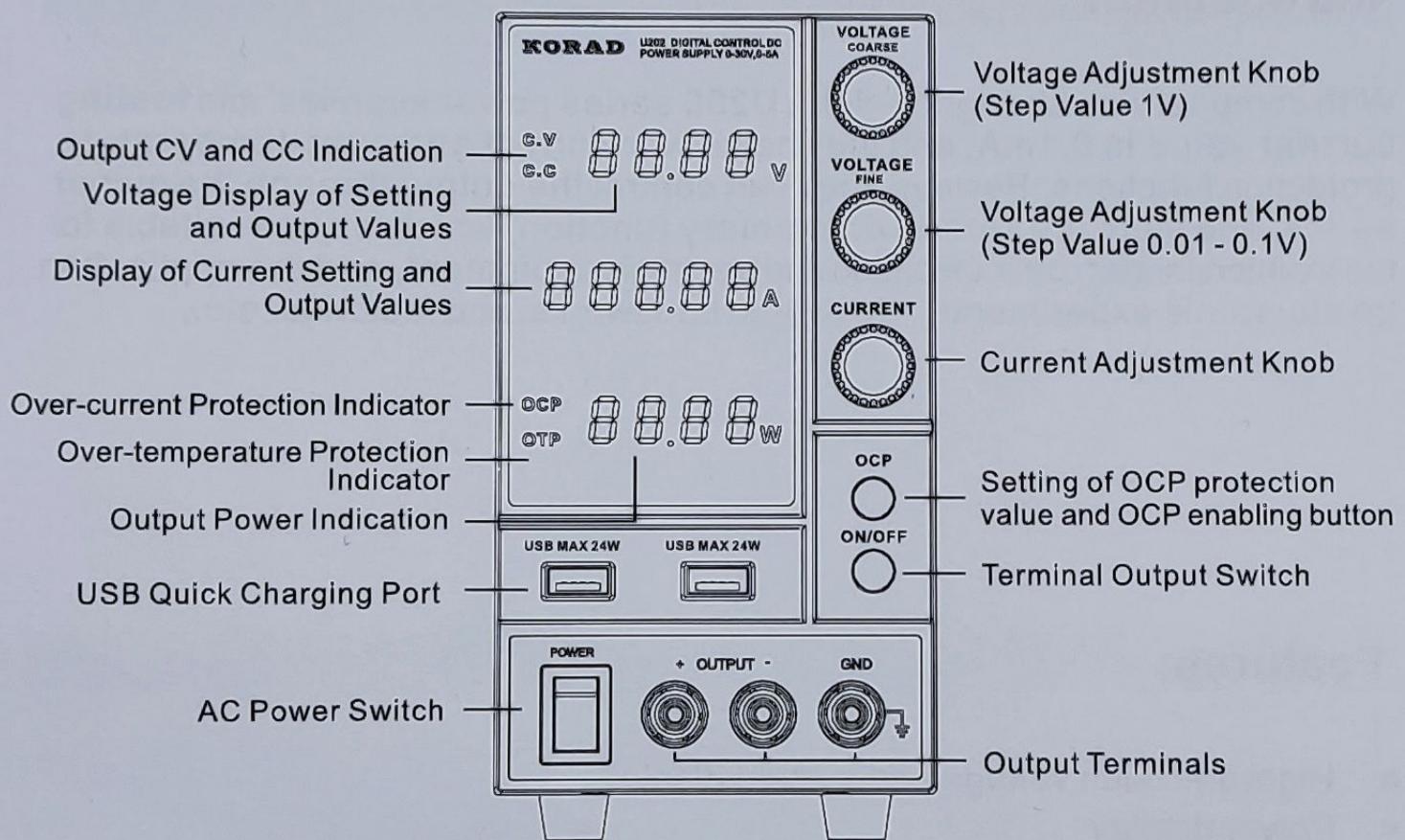
Introduction

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..

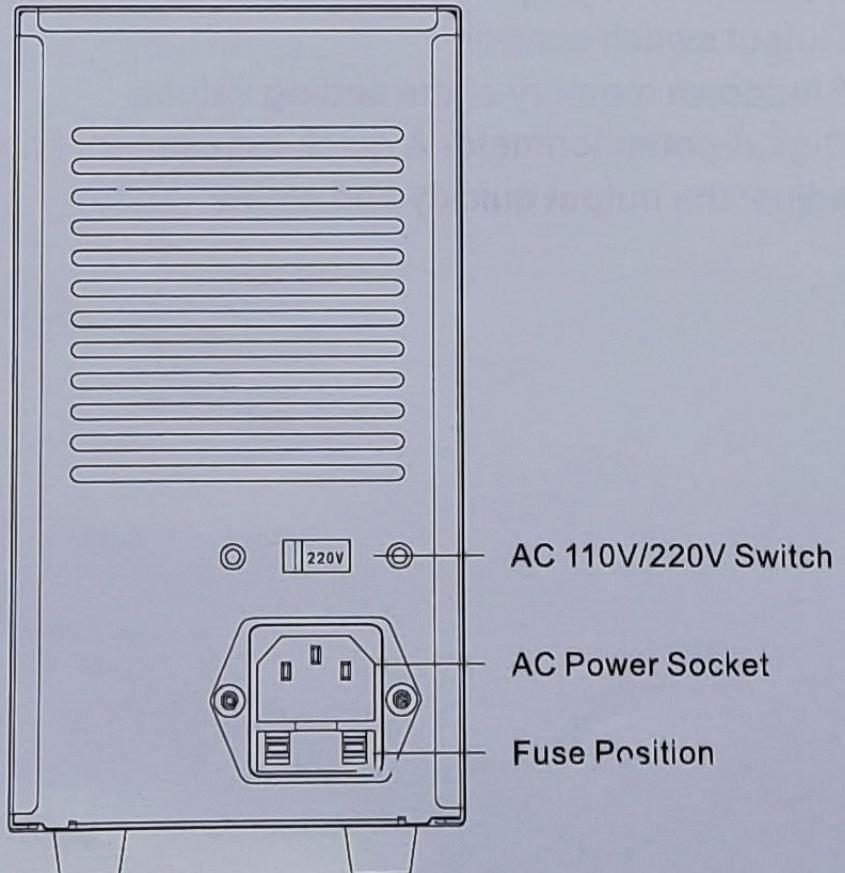
Features:

- High-precision voltage and current display
- Power display
- 0.1mA current display function
- Over-current & over-temperature protections
- 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

Description of the Operation Panel



Description of Rear Panel



Voltage Setting



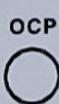
- Rotate this knob to do coarse adjustment of voltage, and the step adjustment value is 1V or 10V. By pressing this button, you can select the adjustment digit.
- Rotate this knob to do fine adjustment of voltage, and the step adjustment value is 0.1V or 0.01V. By pressing this button, you can select the adjustment digit.

Current Setting



- Rotate this current adjustment knob to adjust the current value, and press this button to select the adjustment digit.

Over-current Protection Function



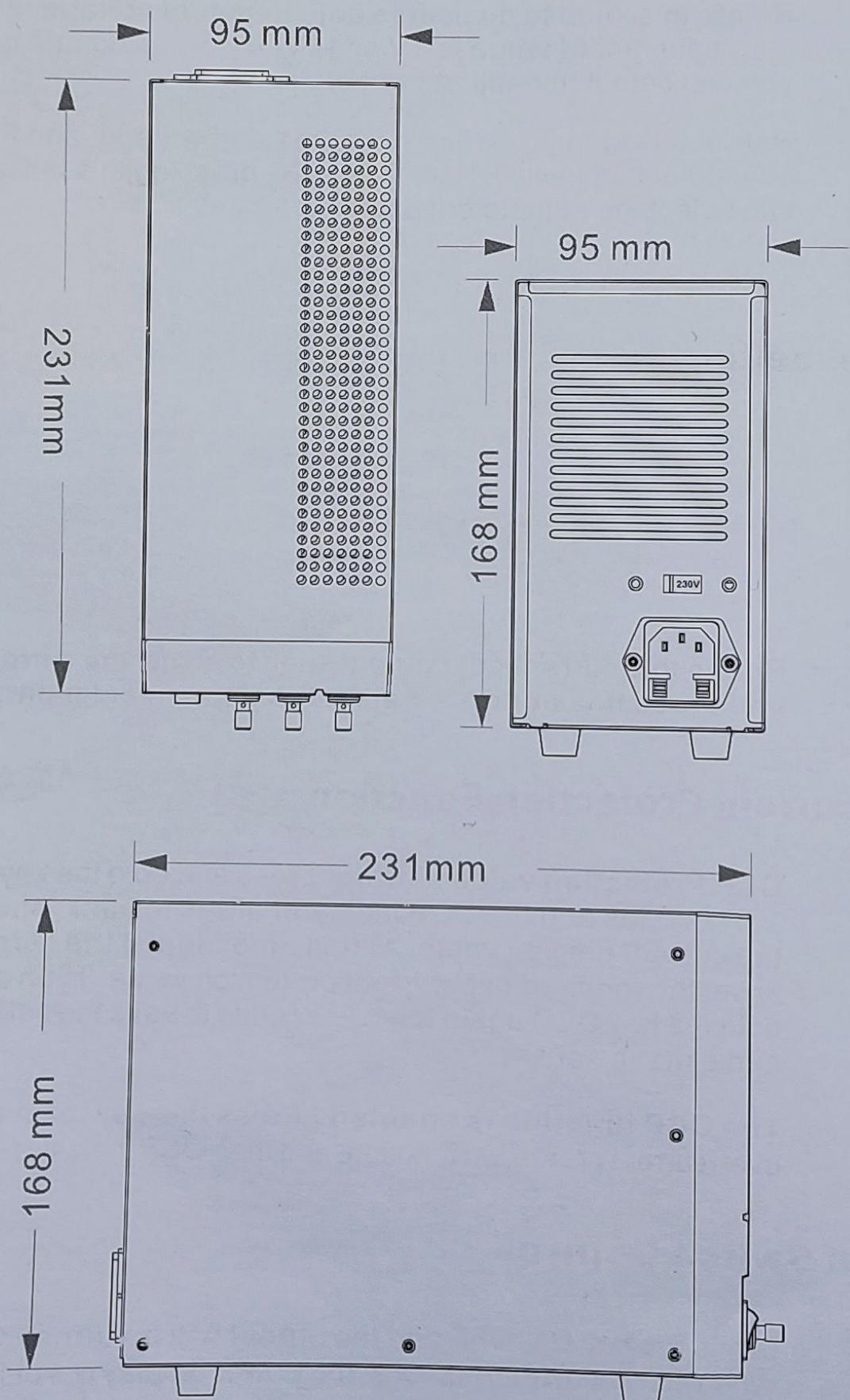
OCP Protection value setting: press and hold the key OCP for 1.5 seconds and the OCP indicator starts to blink, and so does the current display value. At this time, adjust the current knob to set the required overcurrent protection value. Then press and hold the key OCP again for 1.5 seconds to save the setting value and exit the setting.

The OCP function is enabled : Press this key to enable the over-current protection function, and then OCP indicator lights ON.

Output Switch Control



Press the key ON/CFF and the output will be turned ON or OFF. When the output is turned OFF, the power display will display -OFF.

Overall Dimension

Specifications

Note: the following specifications are measured by preheating the machine for 3 minutes and the ambient temperature is $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

Models	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	$\leq 0.01\% + 2\text{mV}$	$\leq 0.01\% + 10\text{mV}$			
Current	$\leq 0.1\% + 2\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 2\text{mA}$	$\leq 0.1\% + 2\text{mA}$	$\leq 0.1\% + 2\text{mA}$
Line Regulation					
Voltage	$\leq 0.01\% + 3\text{mV}$	$\leq 0.01\% + 0.2\text{V}$			
Current	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$	$\leq 0.1\% + 3\text{mA}$
Setup Resolution					
Voltage	10mV	10mV	10mV	10mV	100mV
Current	1mA	1mA	1mA	1mA	1mA
Setup Accuracy($25^{\circ}\text{C} + -5^{\circ}\text{C}$)					
Voltage	$\leq 0.5\% + 10\text{mV}$	$\leq 0.5\% + 200\text{mV}$			
Current	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 5\text{mA}$	$\leq 0.5\% + 10\text{mA}$	$\leq 0.5\% + 5\text{mA}$
Ripple(20-20M)					
Voltage	$\leq 20\text{mVrms}$	$\leq 20\text{mVrms}$	$\leq 20\text{mVrms}$	$\leq 20\text{mVrms}$	$\leq 50\text{mVrms}$
Current	$\leq 10\text{mA rms}$	$\leq 10\text{mA rms}$	$\leq 10\text{mA rms}$	$\leq 20\text{mA rms}$	$\leq 30\text{mA rms}$
Temp. Coefficient					
Voltage	$\leq 150\text{ppm}$				
Current	$\leq 150\text{ppm}$				
Read Back Resolution					
Voltage	10mV	10mV	10mV	10mV	100mV
Current	C>0.5A 1mA C<0.5A 0.1mA				
Read Back Temp. Coefficient					
Voltage	$\leq 150\text{ppm}$				
Current	$\leq 150\text{ppm}$				
Weight and Dimension					
U202, U203, U205, U206 & U210: 95mm(W)*168(H)*231mm(D)					
U202: 1.8kgs, U203: 2.5kgs, U205: 2kgs, U206: 2.5kgs & U210: 2.5kgs					

DONGGUAN KORAD TECHNOLOGY CO., LTD.

Address: F9, Building D2, Kechuang Center, Songshan Lake Intelligent Valley,
No. 7 Yanhe North Road, Liaobu Town, Dongguan City, 523000, Guangdong
Province, P. R. China.

Tel: +86-769-81111584 Fax: +86-769-81111804

E-mail: kiss@koradtechnology.com

www.koradtechnology.com

www.korad.com.cn