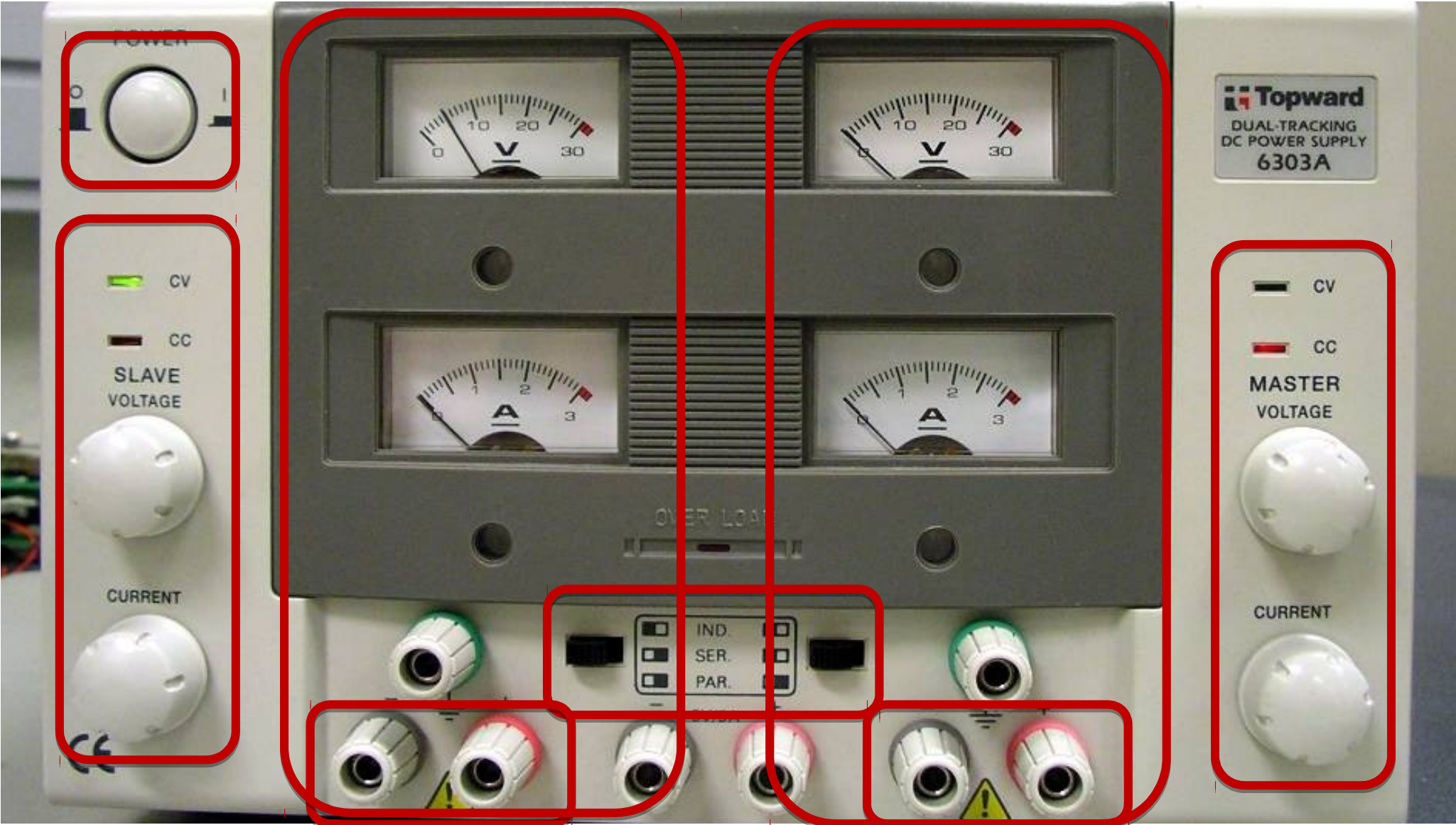


Equipment - Power supply



Equipment - Power supply

- Power supply generates a constant DC voltage.
- UG labs power supplies are Dual tracking (Master & Slave)
- It can be set up in 3 different mode:
 - Independent: Master and slave can be used independently to generate voltages.
 - Serial: Output voltage twice set master output voltage while max output current same as the master setting value
 - Parallel: Max output current twice set master current while the output voltage is the same as the master setting value.
 - No matter which mode is set, 5V/5A supply is independent and generate 5V at up to 5A.

Note: The earth port is connected to the power supply chassis, so don't use it as ground for your circuit.



Modes:

Independent	up to 30V,3A
Serial	up to 60v,3A
Parallel	up to 30V,6A

Exercise: Power supply

1. Disconnect the cables, turn knobs anticlockwise as far as they will go: easy way to ensure no damage
2. Select the mode (commonly Independent)
3. Power up and make sure all the needles show 0 and red CC light is on.
4. Turn the current adjustment knob slightly clockwise until the CC light goes off and CV light goes green.
5. Select the desired voltage (5V) by turning the voltage knob clockwise.
6. Connect the leads to ports and connect other side of leads (Red and Black leads) together.
7. Turn the current knob clockwise and set 0.5A (500mA): CC (red) light still on
8. Separate the black and red lead. The green CV light should be on and red CC should be off.



For all devices in the labs:
Black lead colour: Negative
Red lead colour: Positive