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**9914-BP506**  
**DC POWER SUPPLY**  
**OPERATION MANUAL**

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**1. Introduction**

9914-BP506 high-quality DC power supply has 4 digits voltage, current and power display, settable over voltage protection (OVP) and over current protection (OCP). It is an ideal tool for school, product line, appliance maintenance center, etc. with highly stable performance.

**2. Specifications**

Model	Rate output voltage	Rate output current	Maximum output power
9914-BP506	0~50V	0~6A	150W

**3. Technical Parameters**

3.1 Rated Operating Conditions

Operating voltage: 110/220V±10% 50/60Hz

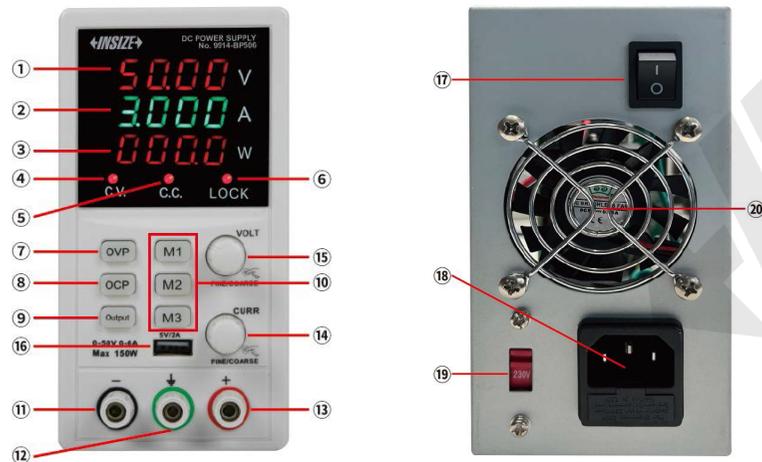
Operating condition: 0°C~40°C, ≤75%RH

Storage condition: -20°C~50°C, ≤90%RH

3.2 Technical Specifications

Specifications	Voltage	Current
Load regulation	≤0.05%+5mV	≤0.1%+3mA
Line regulation	≤0.1%+3mV	≤0.1%+3mA
Setting/recall resolution	10mV	1mA
Setting/recall accuracy	≤0.5%+50mV	≤0.5%+5mA
Ripple	≤5mVrms	≤20mArms

**4. Panel Characteristics**



- 1) Voltage display.
- 2) Current display.
- 3) Power display.
- 4) CV (constant voltage) indicator: this indicator is on under constant voltage operation.
- 5) CC (constant current) indicator: This indicator is on under constant current operation.
- 6) Keypad lock indicator: long press the Voltage Adjustment Knob and Current Adjustment Knob for about 3 seconds to unlock/lock (indicator on) the keypads. Under the keypad lock mode, only the "OUTPUT" button is valid.
- 7) OVP setting button: short press to turn on (backlight on)/off (backlight off) OVP function; long press to

- set OVP value. When the backlight is on and the actual output value is higher than the set value, OVP function will be triggered and "OVP AL" will appear on the screen, you can press "OVP" button to clear it.
- 8) OCP setting button: short press to turn on (backlight on)/off (backlight off) OCP function; long press to set OCP value. When the backlight is on and the actual output value is higher than the set value, OCP function will be triggered and "OCP AL" will appear on the screen, you can press "OCP" button to clear it.
- 9) Output on/off button.
- 10) "M1-M3" storage/recall buttons: short press (indicator on) to recall the stored conditions of the group; long press until the indicator is on to store the conditions.
- 11) Negative (black) output terminal.
- 12) Ground terminal (GND, green).
- 13) Positive (red) output terminal.
- 14) Voltage output adjustment knob: turn clockwise to increase the output voltage and turn counterclockwise to decrease the output voltage. Press the knob to switch the voltage step 1V and step 10mV.
- 15) Current output adjustment knob: turn clockwise to increase the output current and turn counterclockwise to decrease the output current. Press the knob to switch the current step 100mA and step 1mA.
- 16) USB output port: standard output 5V/2A.
- 17) Power supply switch.
- 18) Power supply input socket (fuse included).
- 19) Power supply voltage input switch.
- 20) Cooling fan.

**5. Instructions and Protective Measures**

- 1) Turn the power switch to OFF and connect the power cord to the device. The L terminal of the power cord plug should be connected to the firewire of the power socket, and make sure the ground wire of the power cord has a good connection with the earth.
- 2) To ensure good ventilation, keep a gap of 10cm between the upside/downside/left side/right side and other objects. Do not expose this device to dusty environment or the environment of corrosive gases and other harmful substances.
- 3) Turn the device on for 15 minutes before performing measurements.
- 4) Before powering on, confirm the power supply voltage input switch is in compliance with the mains, otherwise it will cause serious malfunction.

**6. Maintenance**

- 1) If the power supply voltage is normal and the digits are not displayed after starting up, the fuse may be blown or there are other malfunctions. Turn off the power switch and unplug the power cord, then replace the fuse or seek professional advice.
- 2) At constant voltage state, if the output voltage is less than the preset value and the CC indicator is on (current protection), the device will automatically switch to the constant current working state. Users should check the load or increase the maximum current as required.
- 3) At constant current state, if the output current is less than the preset value and the CV indicator is on (open circuit voltage protection), the device will automatically switch to the constant voltage working state. Users should check the load or increase the maximum voltage as required.
- 4) If any malfunction is serious and cannot be resolved, please contact your local dealer.