

PCWork



PCWork DC REGULATED POWER SUPPLY PCW07D

User Manual

Copyright declaration

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General information / safety instructions:

- It is not allowed to change the manual in any way or add content without the written permission of the distributor.
- The user of this power supply is obliged to ensure that any other person using this device has read and understood the manual, in particular the safety instructions. The user is obliged to ensure the functionality of the device before use, to provide the manual and has to ensure that only qualified users operate the device.
- Any modification related to the design or construction of the device is not allowed.
- Any warranty and liability claims for personal injury and property damage are excluded if they are due to one of the following causes:
 - Improper use and operation of the device
 - Non-compliance with the instructions and safety regulations of the manual
 - Operation and use without wearing suitable personal protective equipment
 - Use and installation of unauthorized spare parts
 - Improper maintenance and changes related to the design or construction of the device; removal of the nameplate.
- Please read this manual carefully before using the device and pay special attention to the safety warnings.
- Strictly adhere to this manual when using the device. Also, pay attention to all safety instructions on the device itself. Otherwise, the protective function of the device may be damaged, weakened or otherwise impaired. Safe operation and safety for the user cannot be guaranteed in this case.
- Do not provide children with access to the device. Parents bear full responsibility for all safety risks resulting from non-compliance.
- Before using the device, please check whether it has a crack or plastic damage. If this is the case, do not continue to use the device.
- Maintenance work on the device may only be carried out by trained specialist personnel.

1. TECHNICAL PARAMETERS:

REGULATED OUTPUT VOLTAGE: 0-50V

REGULATED OUTPUT CURRENT: 0-6A (Max output 150W)

1.1 Input voltage: 104~127V AC (60Hz) or 207~253V AC (50Hz)

1.2 Line regulation: $CV \leq 0.1\% + 3mV$ $CC \leq 0.2\% + 3mA$

1.3 Load regulation: $CV \leq 0.1\% + 3mV$ $CC \leq 0.5\% + 10mA$

1.4 Ripple and noise: $CV \leq 5mV r.m.s$ $CC \leq 20mAr.m.s$

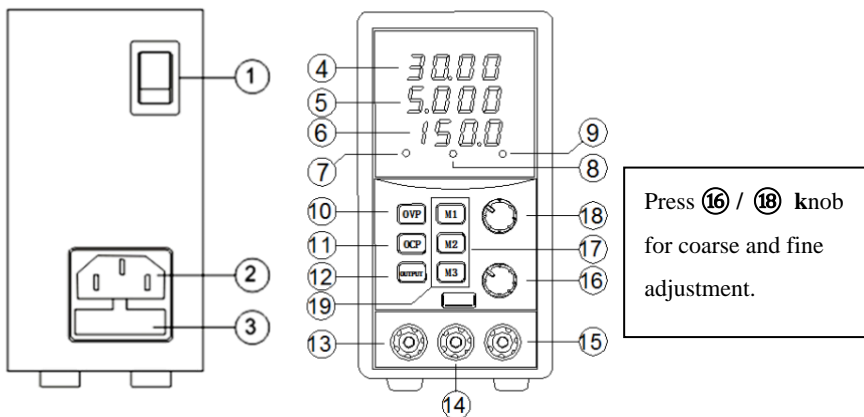
1.5 Protection: current limiting and short-circuit protection, over current protection, over voltage protection

1.6 Voltage indication accuracy: $LED \pm 0.5\% + 5$ digits

1.7 Current indication accuracy: $LED \pm 0.5\% + 5$ digits

1.8 Environment: 0~+40 °C relative humidity <90%

2.1 Controls and indicators



- ① Power 1-0 switch.
- ② AC Input socket with fuse.
- ③ Concealed fuse box.
- ④ Voltage display
- ⑤ Current display
- ⑥ Output power display
- ⑦ CV--constant voltage status indicator
- ⑧ CC--constant current status indicator
- ⑨ LOCK--lock status indicator
- ⑩ OVP setting button
- ⑪ OCP setting button
- ⑫ OUTPUT output switch button
- ⑬ Output terminal negative (-) black color.
- ⑭ Housing Ground (GND) Terminal(\perp) green color
- ⑮ Output terminal positive (+) red color
- ⑯ Current set value adjustment knob, current fine and coarse adjustment switch button
- ⑰ USB output interface
- ⑱ Voltage set value adjustment knob, voltage fine and coarse adjustment switch button

2.2 Operation Of Device

Setting The Voltage:

Voltage can be precisely adjusted in 1V and 10mV steps respectively; adjust knob ⑱ to the required voltage (if you press this knob once, you can switch between voltage coarse and fine adjustment).

Setting The Current:

The current can be precisely adjusted by 100mA and 1mA steps respectively. Adjust knob ⑰ to the required current (if you press this knob once, you can switch between voltage coarse and fine adjustment).

Output Control:

After setting the current and voltage, press button ⑫, connect an output load. The voltage display will show the actual output voltage value at this time, whereas the current display will show the actual current value according to the load. The current display will show zero if the output terminal is not connected to a load.

Lock Function:

Press knob ⑰ & ⑱ in the same time for 3 seconds, the lock indicator will light up and now the voltage as well as current settings are locked-in. The lock-function will disable any previous chosen over-voltage or over-current protection settings (more regarding the settings below). In order to return to the normal mode, press knob ⑰ & ⑱ at the same time again for 3 seconds, the lock indicator will disappear, and the power supply will return to the normal adjustable mode.

Storage Function:

Tune the device's output settings as desired. Press one of the following buttons for 3 seconds: M1 / M2 / M3. The current and voltage settings are now saved and associated with the chosen button. Repeat the process for all other memory buttons. If you press one of the buttons (M1 / M2 / M3), the device will automatically change to settings associated with the pressed button.

Over Voltage Protection Setting:

Press the OVP button to turn the Over Voltage Protection function on or off. When the Over Voltage Protection function is turned on, the button indicator light will light up, otherwise there will be no indication. Press and hold the OVP button for 3 seconds to enter the Over Voltage Protection value setting mode. Now you can adjust the voltage as desired by turning knob ⑱. The voltage display ④ will show the set voltage value, and display ⑥ will show the OVP letters.

Over Current Protection Setting:

Press the OCP button to turn the Over Current Protection function on or off. When the Over Current Protection function is turned on, the button indicator light will light up, otherwise there will be no indication. Press and hold the OCP button for 3 seconds to enter the Over Current Protection value setting mode. Now you can adjust the voltage as desired by turning knob ⑰. The current display ⑤ will show the set current value, and display ⑥ will show the OCP letters.

Maximum output power is 150W, therefore set voltage * set current ≤ 150W.

When adjusting the voltage, if the set voltage * set current ≥ 150W, the set current will automatically decrease and remain at the set voltage * set current ≤ 150W.

When adjusting the current, if the set voltage * set current ≥ 150W, the set current will be limited to the set voltage * set current ≤ 150, and the set voltage remains unchanged.

3. ATTENTION:

3. 1 The power supply is equipped with current limiting protection. In case of a short circuit at the output end, the output current will be limited to the maximum current limiting point and will not increase again. However, there is still a great power consumption on the power tube at this time. Therefore, in case of short circuit or overload, turn off the power supply and eliminate the fault, in order to restore the device to normal operation

3. 2 The mains power must be switched off before servicing. Any servicing work should only be carried out by a qualified person.

3. 3 The unit should be stored in a dry as well as ventilated place and the power cord should be removed if the device is stored for longer periods.

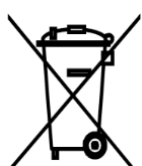
4. Accessories

4.1 Power cord -----one piece

4.2 Instruction manual -----one piece

4.3 Alligator leads -----one piece

Information regarding waste disposal



You are not permitted to dispose of this device in household garbage. This device corresponds to the EU-directive concerning the “Waste of Electrical and Electronic Equipment”. Please dispose of the device in your local collection point.

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