# Digital Control Power Supply Housing Installation Instructions

This housing is suitable for the following mode of digital control power supply:
**DPS5015 （ DPS5015-USB-BT ） 、 DPS5020 （ DPS5020-USB-BT ） 、 DPH5005(DPH5005-USB-BT)、DPS3012、DPH3205**



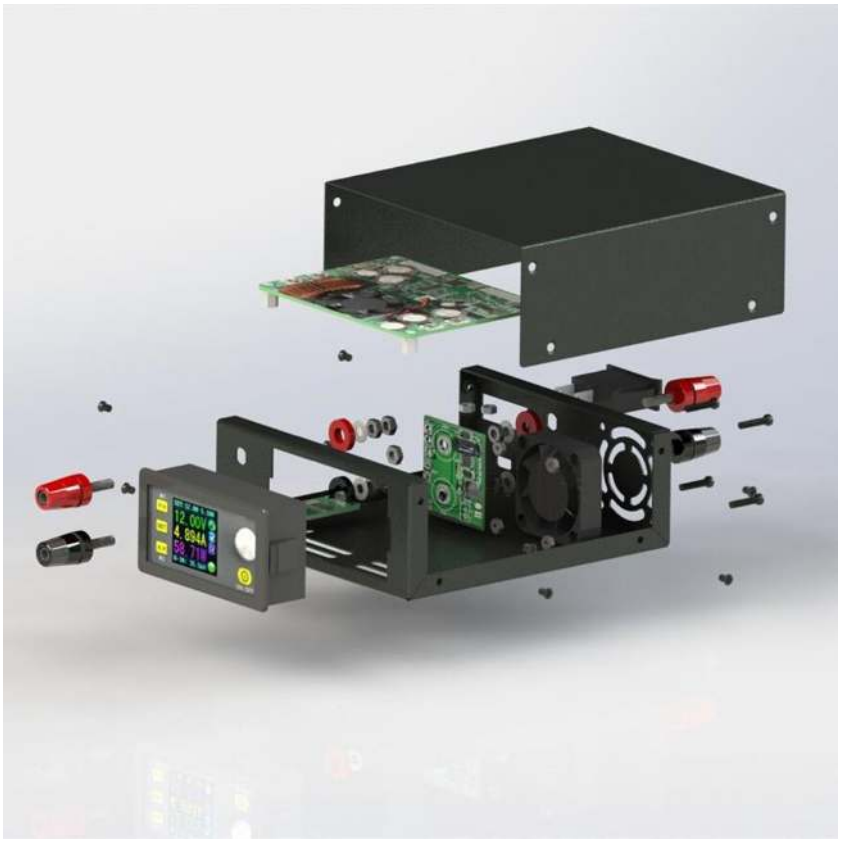

## 1. Installation Note:

1.1 Please read the instructions carefully before installation. If you have any question, please contact us.
1.2 This housing adopts cold-rolled steel sheet material, so please avoid being scratched by sharp objects, direct sunlight and humid environment.
1.3 when install this, please avoid short-circuit and connect positive and negative electrode correctly
1.4 Forbid connect the circuit after power on.
1.5 Please avoid vibration and fall.

## 2. Product Specifications



## 2.1 Product Assembly Explode Diagram



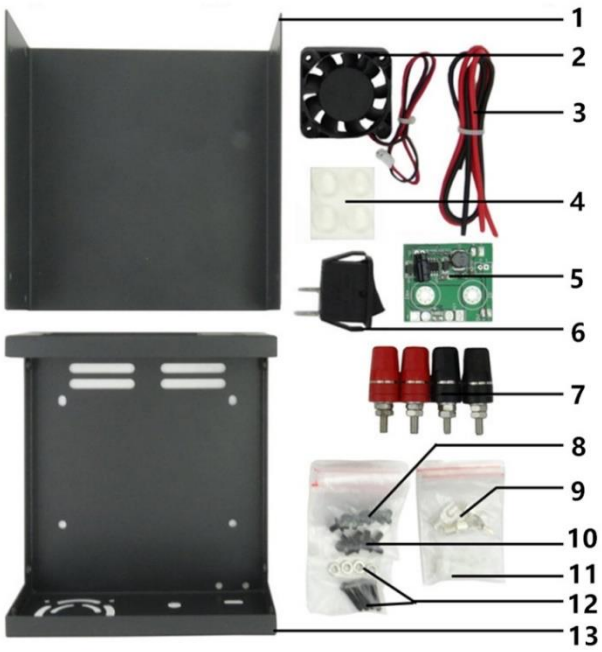
## 2.2 Kit parts list

| Item | Specification | Qty. | Remark |
|---|---|---|---|
| Upper cover plate | 137*123*51 MM(L*W*H) | 1 | Cold-Roll Steel Sheets |
| Lower cover plate | | 1 | |
| Fan | 4010 | 1 | 5V power supply |
| Fan power supply board | 36*40（L*W) | 1 | |
| Binding post | M4*36 | 4 | Red 2pcs<br>Black 2pcs |
| Cold press connecting terminal | UT2.5-4 | 7 | Spade Terminal |
| Rocker Switch | KCD3 | 1 | |
| Connecting line | RV 2.5 square single core flexible cord | 2 | Red 30cm<br>Black 25cm |
| Screw for housing | Flat head M3*5 | 8 | |
| Fan fixed screw | Fillister head M3*13 | 4 | Screw 4 pcs<br>Nut 4 pcs |
| Nylon column | M3 Single head hex nylon column L=8mm | 2 | PA66 |
| Nylon Nut | M3 hexagonal nylon nut | 2 | PA66 |

| | | | |
|---|---|---|---|
| | H=2.4mm | | |
| Power module and communication board fixing screw | Fillister head M3*5 | 6 | |
| Transparent sticky mat | Φ12*4 | 4 | |

## 2.3 Kit Parts Picture

1- Lower cover plate
2- Fan
3- Connecting line
4- Transparent sticky mat
5- Fan power supply board
6- Rocker Switch
7- Binding post
8- Power module and communication board fixing screw
9- Cold press connecting terminal
10- Screw for housing
11- Nylon column 、Nylon Nut
12- Fan fixed screw
13- Upper cover plate




Note:

| | | | | |
|---|---|---|---|---|
| Screw for housing 8pcs | Nylon column M3 Single head hex nylon column L=8mm 2pcs 、Nylon Nut M3 hexagonal nylon nut H=2.4mm 2pcs | Fan fixed screw Fillister head M3*13 4pcs | Power module and communication board fixing screw Fillister head M3*5 6pcs | Cold press connecting terminal UT2.5-4 7pcs |
|  |  |  |  |  |

# 3 Installation Procedures

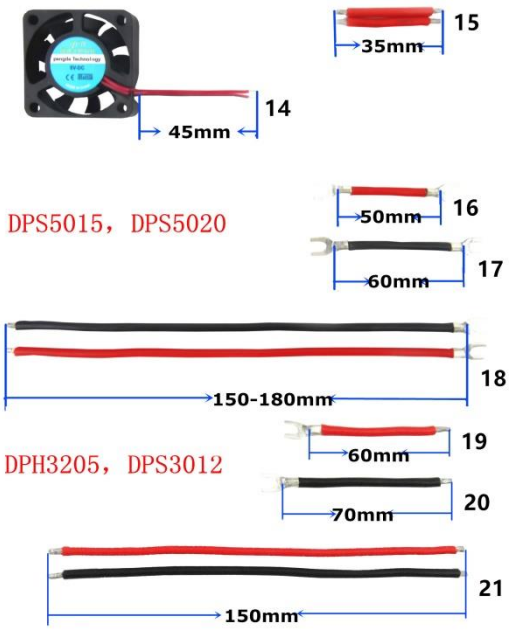
## 3.1 Installation Preparation

3.1.1 1 pcs digital control power supply
3.1.2 Tools (Soldering iron, solder, Philips screwdriver, Wire stripping pliers)

3.1.3 A proper installation environment

3.2 **Installation Procedures**

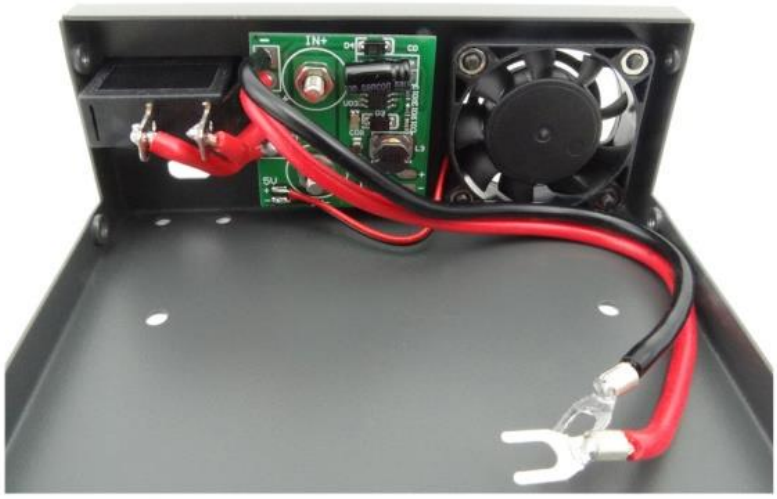
3.2.1 Use wire stripping pliers to cut proper length line, the length as follows:



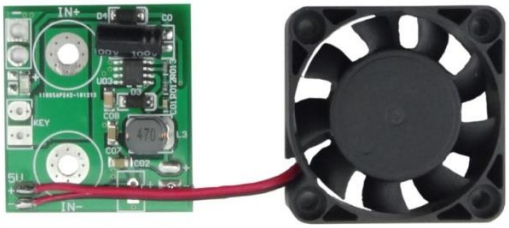

14- Fan line 45mm
15- Switch connecting line 35mm
16- Output positive line 50mm
17- Output negative line 60mm
18- Input positive and negative connecting line 150-180mm
19- Output positive line 60mm
20- Output negative line 70mm
21- Input positive and negative connecting line

3.2.2 Install the input binding post and switch: put binding post and switch on slot at rear panel. Install binding post according to rule that red is positive above, black is negative below; and screw it tightly.

3,2.3 Install fan power supply board:



3.2.3.1 Weld fan line on 5V place at fan power supply board (Note: can't weld positive and negative reversely).



3.2.3.2 The power input line welding in the fan power supply board on the upper left corner of the two pads, pay attention to the positive and negative do not welding the wrong.
3.2.3.3 Install fan power supply board on the binding post (red is positive above, black is negative below), then use the screw to fix them.
3.2.3.4 Use the prepared wire to weld the power switch on the key place at fan power supply board.



3.2.4 Install the fan: use the matched screw to fix. The one side attached label is installed outward.
3.2.5 Install the output binding post, and use the output line with cold press connecting terminal to connect input (red is positive above, black is negative below), and screw it tightly
3.2.6 Module connection using pluggable terminal, the input and output of the four threads into the correct hole in the terminal, and tighten the screw (this process must pay attention to the four lines do not get wrong)
3.2.7 This step contains power supply board installation, display part and USB board installation.
3.2.7.1 Firstly install USB communication board (if you bought no communication version, please ignore this step). Use nylon column and nylon nut to prop USB board up. Then use the screw to fix it on preset place of bottom housing



3.2.7.2 Install the display part. Please put it on slot at front panel (when put it on slot, strength will be proper to avoid the deformation).
3.2.7.3 Use the cable to connect display part with power part. Note the words LCD and KEY on PCB to correspond to the same words on display part (the cable must go through under the PCB, otherwise the capacitor will generate interface to effect it).
3.2.7.4 According to the following four holes of the cover plate, mounted power module and use screws to hold.
3.2.7.5 Connect input positive and negative to connect IN+ and IN-, and connect output.
3.2.7.6 use communication cable to connect USB board with module
3.2.8 After connecting, please power on to check it work or not (before power on, check

connection again)

3.2.9 Install the housing. The upper cover plate will be installed on the upper cover plate. And then use the screw to fix them

3.2.10 There are 4 transparent sticky mat, you can paste symmetrically them on the 4 corners on the bottom.

3.3 Internal connection diagram：

