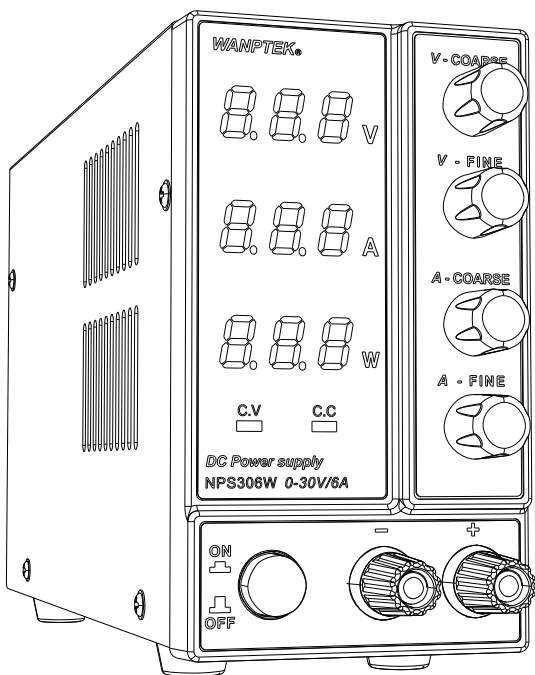


WANPTEK

DC POWER SUPPLY



NPS series

Product User Manual

Shenzhen Guce Electronic Technology Co., Ltd

security profile

Welcome to use our company's programmable DC stabilized power supply (referred to as power supply).

This manual contains important safety instructions that must be followed for the operation, use, and storage environment of this series of products. To ensure your personal safety, it is necessary to read this manual thoroughly before operation to avoid personal injury caused by improper operation or damage to the power supply and other load devices connected to the power supply.

Job requirements:

1. Communication input:

Please first determine the allowable AC voltage input for this machine. This machine can be achieved through the conversion switch on the rear panel Two types of AC voltage inputs: AC 230V \pm 10% or AC 115V \pm 10%



When "230V" can be seen, the allowable input voltage is AC230V \pm 10%



When "115V" can be seen, the allowable input voltage is AC115V \pm 10%



Incorrect input of AC voltage can cause serious damage to the machine. Please determine the required input voltage value for the machine.

2. Grounding wire:

When using this product, please ensure that the power cord is well grounded. If the power socket has no ground wire, a wire can be used to connect the machine casing to the ground. Good grounding can effectively prevent machine leakage and reduce output ripple interference.

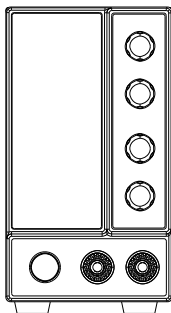
Connecting load devices

1. Connect one end of the output wire firmly to the terminal of the power supply by pressing the positive and negative poles;
2. Connect the other end of the output wire firmly to the positive and negative terminals of the load device.

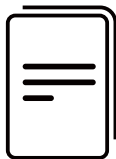


Incorrect connection may cause damage to the power supply and the load connected to the power supply. When connecting a battery or other load, do not reverse the "+" and "-" poles, This may damage the power supply.

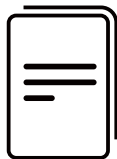
inventory



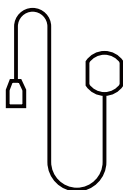
power



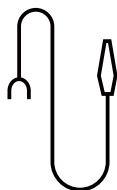
instructions



Warranty Card



Power cord

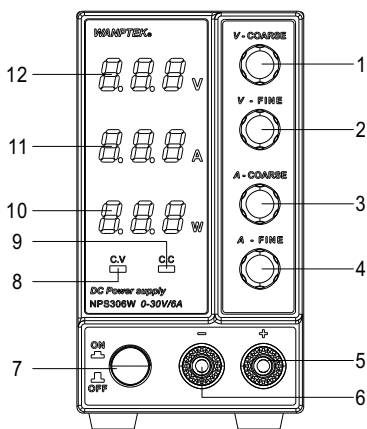


Output line

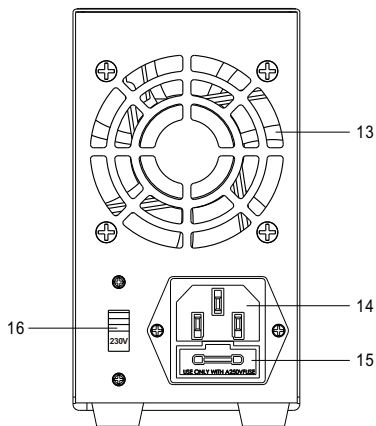
parameter

model	NPS306W	NPS3010W	NPS605W	NPS1203W
output voltage	0~30V	0~30V	0~60V	0~120V
Output current	0~6A	0~10A	0~5A	0~3A
output power	180W	300W	300W	360W
Specification of fuse:	3A	5A	5A	5A
Product size:	L:210mm X W:70mm X H:125mm			
Product weight:	Net weight:1.15Kg , Gross weight:1.5Kg			

Product Introduction



1	Rough voltage adjustment
2	Voltage fine-tuning
3	Coarse current adjustment
4	Current fine-tuning
5	Positive polarity (red)
6	Negative polarity (black)
7	Power switch
8	Constant voltage indicator light
9	Constant current indicator light
10	Power display
11	Current display
12	Voltage display



13	Temperature controlled cooling fan
14	Power socket
15	Fuse box
16	AC input voltage selection switch

Operating instructions

The power output mode is divided into two types: constant voltage output (C.V) and constant current output (C.C). The output mode is determined by the voltage and current values set by the user, as well as the load connected by the user. The voltage or current output of the power supply will not exceed the voltage and current values set by the user.

In constant voltage mode, the output voltage value is equal to the voltage value set by the user, In constant current mode, the output current value is equal to the current value set by the user.



In actual CV operation, if the decrease in load resistance leads to an increase in output current to the set current value, the power supply will automatically switch to CC mode. When the load resistance continues to decrease, the current will remain at the current set value, and the voltage will decrease proportionally ($I=V/R$). At this point, increasing the load resistance value or increasing the current setting value can restore the CV output state.

V-COARSE voltage coarse adjustment/V-FINE voltage fine adjustment

1. Adjust the voltage coarse adjustment knob to near the desired voltage value, and then adjust the fine adjustment knob to the specific voltage value required.

A-COARSE current coarse adjustment/A-FINE current fine adjustment

When the user needs to adjust the limiting current output:

1. Connect the "positive" and "negative" terminals with wires, adjust the current coarse adjustment knob to the desired current value, and then adjust the fine adjustment knob to the specific current value required. Finally, disconnect the wires and connect the load.

Constant voltage/constant current characteristics:

The working characteristics of this series of power supplies are constant voltage/constant current automatic conversion type, which can automatically transition between constant voltage and constant current states with changes in load. The intersection point between constant voltage and constant current modes is called the conversion point. For example, if the load causes the power supply to operate in a constant voltage mode, it outputs a constant voltage. As the load increases, the output voltage will remain stable and the output current will increase. When the current value reaches the set current limit, the power supply will automatically switch to constant current mode. The output current remains stable, and the output voltage decreases proportionally with further increase in load. The conversion between constant voltage and constant current is indicated by the LED on the front panel. When the voltage is constant, the CV indicator light is on, and when the current is constant, the CC indicator light is on.

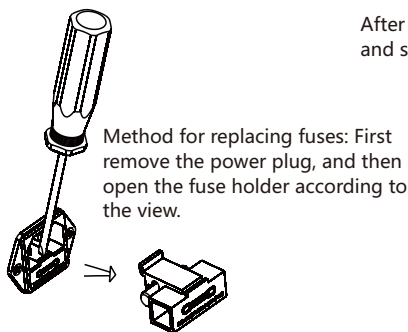
Frequently asked questions

Product warranty

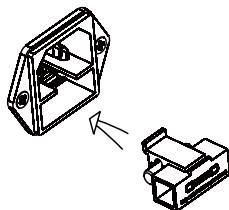
1. This product is eligible for free repair service within one year from the date of purchase. Except for the following situations:
 - a. Failure to present the warranty card for this product:
 - b. Malfunctions caused by abnormal use, such as improper human operation and improper repair, modification, or adjustment of components:
 - c. Consumable materials are not covered by the warranty:
 - d. Natural and uncontrollable disasters, such as floods, fires, earthquakes, etc.:
2. Repairs beyond the warranty period will be charged a repair fee, and any expenses incurred due to maintenance will be borne by the user.

Replacement of fuses

If the fuse burns out, the machine will stop working. To identify and correct the cause of a blown fuse, then replace it with a fuse of the same specification.



After replacing the fuse with the same model and specification, reinstall the fuse holder.



For effective safety protection, only specific specifications of fuses can be replaced. Before replacing a fuse, the power must be turned off and the power cord unplugged from the power socket



**Follow the official website of fixed test power supply to
experience more considerate services**

WANPTEK

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