

# Hantek®

## USER MANUAL Output DC Bench Power Supplies With LED

HT3003PA, HT3005PA



## General Description:

Your new DC Regulated Power Source provides accurate & stable DC power. It is ideal for test benches, laboratories, schools & repair facilities. The multi-turn voltage control knob helps the user accurately dial in a precise voltage. It is easy to read digital outputs (voltage & current) through a LED displays.

## Features:

- \*SMD adhesive sheet element technology for internal PCB construction
- \* Two LEDS Display output current and voltage
- \*A cooling fan
- \*Multiloop high precision voltage regulation
- \*Progressive current regulation
- \*Dual terminal system Safety test style or expandable screw terminals
- \*Overload protection circuit
- \*Low ripple voltage: <1mVP-P
- \*Output polarity: positive or negative
- \*Rugged reinforced metal frame construction

## Specifications:

Model	Voltage	Current	Display
HT3003PA	0-30VDC	0-3A	100mV 10mA
HT3005PA	0-30VDC	0-5A	100mV 10mA

## General

**Description:** Utilizes SMD technology

Single/Dual Output Light and Compact

Output Polarity: Positive and Negative

LED Display shows Voltage and Current value

Low Ripple Voltage Less Than 1mVP-P

Overload Protection Circuit

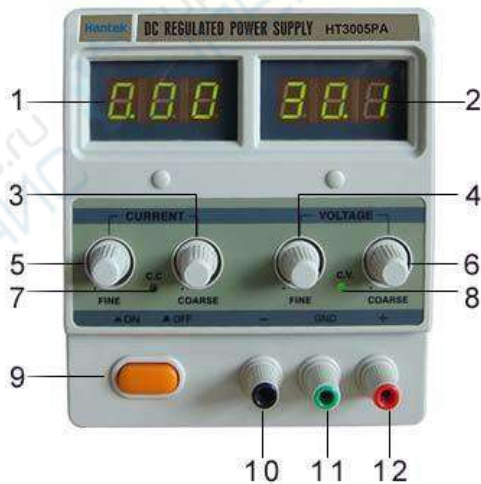
Applicable for School, Production Line, Laboratory and Maintenance

**Specifications:**

Input Voltage	220V AC +/- 10%	
Voltage Regulation	$CV \leq 3 \times 10^{-4} + 3mV$	$CC \leq 3 \times 10^{-3} + 6mA$
Load Regulation	$CV \leq 3 \times 10^{-4} + 3mV$	$CC \leq 3 \times 10^{-4} + 6mA$
Ripple & Noise	$CV < 1mVrms$	$CC < 10mArms$
Protection	Current Limiting	
Voltage Indication Accuracy	1%+1d	
Current Indication Accuracy	2%+2d	
Ambient Temperature	0 ~ +40°C	
Humidity	<90%	
Dimensions(Dual)	135(w)×160(H)×280(D)	
Accessories	Instruction Manual, Power cord, Test Leads	

**2. Operation**

**2.1 Front Panel Controls.**



- (1) Current Indication
- (2) Voltage Indication
- (3) Fine Adjustment Knob for Regulated Current and the current limit point setter at fine

adjustment

(4) Coarse Adjustment Knob for Regulated Current and the current limit point setter at coarse adjustment

(5) Fine Adjustment Knob for Regulated Voltage Value

(6) Coarse Adjustment Knob for Regulated Voltage Value

(7) Stable Current Indicator

(8) Stable Voltage Indicator

(9) Power Switch ON/OFF

(10) Negative terminal for output

(11) The grounding line of the case

(12) Positive terminal for output

The unit has 1 output display. The display has 2 readings. The left is Current and the right is Voltage. There is 1 output That is 0-30 Volts with 0-3A.

This unit fan turns on when the temperature reaches 115 DegF or 50 Deg C.

It takes a standard 220VAC input only. And it is fuse protected.

## **2. Attention:**

2.1 The mains power must be switched off before servicing and servicing should be referred to a qualified person.

2.2 The unit should be stored in a dry and well ventilated place and the power cord should be removed from its power source for long periods of inactivity.

## **3 Accessories:**

3.1 Power cord ----- one piece

3.2 Instruction Manual ---- one piece

3.3 Negative Wiring ---- one piece