

UNI-T®



UTP3700 Series OPERATING MANUAL

DC POWER SUPPLY

**UTP3700 SERIES
DC POWER SUPPLY
INSTRUCTION MANUAL**

Introduction

Thanks for purchasing our product! In order to ensure to use this Instrument correctly for the best performance, please read this manual in detail and keep it properly. This Instrument is under strictly quality control for production. All the parts go through screening and ageing, and a series performance testing, environmental testing and safety testing, Guaranty for safety in proper using. The best working performance under the guidelines of working environment.

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Summary

UTP3700 series DC power supply is a kind of general power supply used in laboratory. Both CH1 and CH2 may work in CV or CC mode, and these two modes convert automatically according to the load. CH1 and CH2 have auto tracking function. In this condition, the output of CH2 tracks the output of CH1. This function is usually used while need adjustable symmetrical and double polarity power. Each CH1 and CH2 displays the output voltage or current with a 3-digits-LED meter. Both CH1 and CH2 have overload protection.

CH3 is a 5V fixed output. Its maximum output current is 2A. It is usually used in TTL circuit etc. It has overload protection also.

Specifications

Output Voltage and Current:

Spec. Model	CH1, CH2 Voltage	CH3 Voltage	CH1, CH2 Current	CH3 Current
UTP3701	0-24V	5V	0-1A	2A
UTP3702	0-32V	/	0-3A	/
UTP3703	0-32V	5V	0-2A	2A
UTP3704	0-32V	5V	0-3A	2A
UTP3705	0-32V	/	0-5A	/

CH1 and CH2

Load Regulation: CV $\leq 1 \times 10^{-4} + 2\text{mV}$; CC $\leq 20\text{mA}$

Ripple & Noise: CV: $\leq 1\text{mVrms}$; CC: $\leq 1\text{mVrms}$

Adjustable Resolution: CV: $\leq 20\text{mV}$ (typical)

CC: $\leq 50\text{mA}$ (typical)

Interactive Regulation: CV $5 \times 10^{-5} + 1\text{mV}$

CC $< 0.5\text{mA}$

Tracking Error: $5 \times 10^{-3} + 2\text{mV}$

CH3

Output Voltage: 5V

Output Current: 0-2A

Ripple & Noise: $\leq 3\text{mVrms}$

Ambient Temperature Range:

Operating: $0 \sim +40^\circ\text{C}$

Storing: $+5 \sim +45^\circ\text{C}$

Power Source: AC230V $\pm 10\%$, 50Hz $\pm 4\%$

Dimensions: 305(D) \times 197(W) \times 152(H)mm

Weight: Approx. 9.5kg

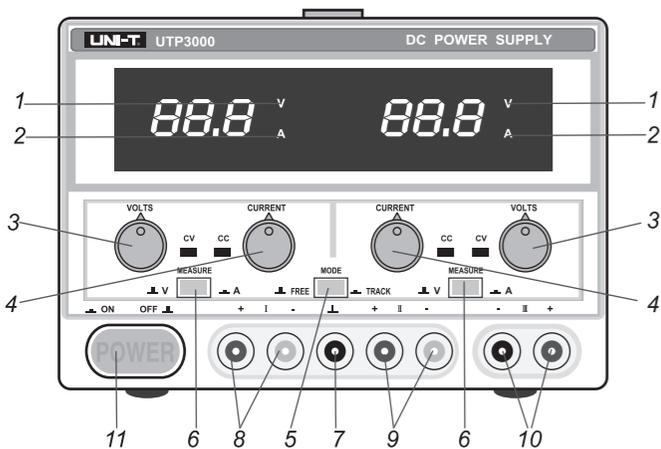
MTBF: $\geq 2000\text{h}$

Accessories

Check the Meter whether there is any damage or metal part is exposed. Packing box include the below items. If any differences or damage, please contact the nearby sales offices. Standard accessories are as below:

- | | |
|-----------------------|-------|
| 1、 Power cord | 1 pcs |
| 2、 Instruction manual | 1 |

Descriptions of panel



- 1) Voltage Meter.
- 2) Current Meter
- 3) VOLTS: Adjust the output voltage at CV mode

- 4) CURRENT: Adjust the output current at CC mode
- 5) MODE: Control two main channels work in FREE mode or TRACK mode.
- 6) MEASURE: Select the digital meter's display, the output voltage or the output current.
- 7) Ground of instrument
- 8) Output terminal of CH1
- 9) Output terminal of CH2
- 10) Output terminal of CH3
- 11) POWER: Push in to turn on the power.

Applications

The left area of panel is corresponding to CH1 and the right area of panel is corresponding to CH2. When the left MEASURE is pushed out, the CV lamp lightens, and the left digital meter displays the output voltage of CH1. When this button is pushed in, the CC lamp lightens, and the left digital meter displays the output current of CH1. CH2 is same to CH1.

When the MODE button is pushed out, each CH1 and CH2 works independently. When this button is pushed in, CH2 tracks to CH1.

The output of CH1 and CH2 are suspended. You can set the negative level of output by connecting the reference point to the "-" terminal.

Each CH1 and CH2 can outputs from 0 to 32V voltage and from 0 to 3A current adjustable. They can output from 0 to 64V voltage and from 0 to 3A current adjustable in series.

They can also output from 0 to 32V voltage and from 0 to 6A current adjustable in parallel.

The "-" terminal of III channel has been connected to the ground.

A protective grounding connection is essential for safe operation. This is helpful to reduce the ripple and 50Hz noise also.

END

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Manufacturer:
Uni-Trend Technology (Dongguan) Limited
Dong Fang Da Dao
Bei Shan Dong Fang Industrial Development District
Hu Men Town, Dongguan City
Guang Dong Province
China
Postal Code: 523 925

Headquarters:
Uni-Trend Group Limited
Rm901, 9/F, Nanyang Plaza
57 Hung To Road
Kwun Tong
Kowloon, Hong Kong
Tel: (852) 2950 9168
Fax: (852) 2950 9303
Email: info@uni-trend.com
<http://www.uni-trend.com>