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尺寸：285*210mm

UTP3313TFL-II/UTP3315TFL-II DC Power Supplies User Manual

1. Introduction

UTP3313TFL-II/UTP3315TFL-II linear DC power supplies are high-quality and stable devices. These power supplies output pure and reliable signals. Other features include 4-digit voltage and current LED display, short-circuit protection, overload protection, reverse polarity protection and more. These power supplies are ideal tools for university and technical trade schools, electronics production lines, household appliance repair companies, etc.

2. Specifications

Model	Voltage output range	Current output range		LED display digits
	0-30V	0-3A	0-5A	4digits
UTP3313TFL-II	●	●		●
UTP3315TFL-II	●		●	●

3. Technical Parameters

3.1 Operating Conditions

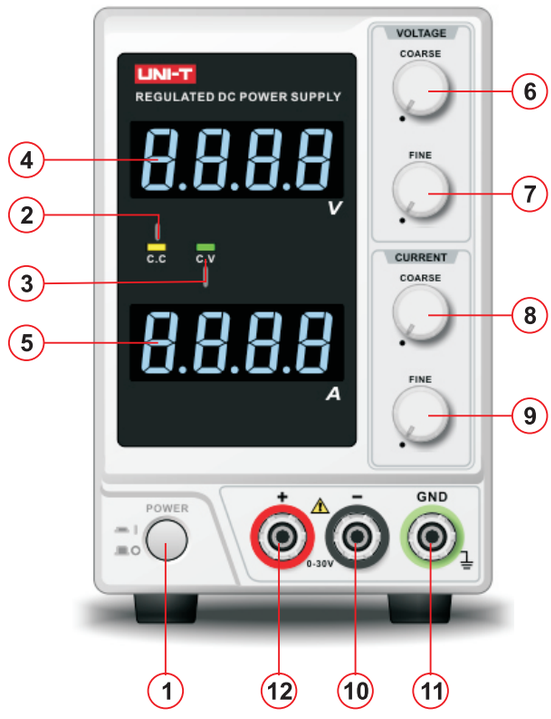
Operating voltage: AC 110V/220V ± 5% 50Hz/60Hz
Operating conditions: Temperature 0°C~40°C, relative humidity ⩽85%
Storage conditions: Temperature -10°C~80°C, relative humidity ⩽80%

3.2 Technical specifications

Basic Function	**Technical specifications**	
Model	UTP3313TFL-II	UTP3315TFL-II
Rated output voltage	0~30V	0~30V
Rated output current	0~3A	0~5A
Output power	96W	160W
Load regulation	Voltage: <0.01% + 3mV	Voltage: <0.01% + 5mV
	Current: <0.1% + 5mA	Current: <0.1% + 10mA
Line regulation	Voltage: <0.01% + 3mV	Voltage: <0.01% + 3mV
	Current: <0.1% + 3mA	Current: <0.1% + 3mA
Setting resolution (25°C± 5°C)	Voltage: 10mV	Voltage: 10mV
	Current: 1mA	Current: 1mA
Setting accuracy (20Hz~20MHz)	Voltage: <0.5% + 20mV	Voltage: <0.5% + 20mV
	Current: <0.5% + 5mA	Current: <0.5% + 10mA
Ripple and noise	Voltage: ⩽1mVrms	Voltage: ⩽2mVrms
	Current: ⩽3mArms	Current: ⩽3mArms
Recall resolution	Voltage: 10mV	Voltage: 10mV
	Current: 1mA	Current: 1mA
Temperature coefficient	Voltage: ⩽300ppm/ °C	
	Current: ⩽300ppm/ °C	
Instantaneous response time	<100uS (50% load change, minimum load 0.5A)	
Display		
Display type	4-digit voltage and current LED display	
Power		
Voltage	AC 110V/220V ±5%	
Frequency	50Hz/60Hz	
Mechanical specifications		
Dimensions(W*H*D)	105*155*210 (mm)	
Weight	3kg	4kg

4. Panel Characteristics

4.1 Front Panel

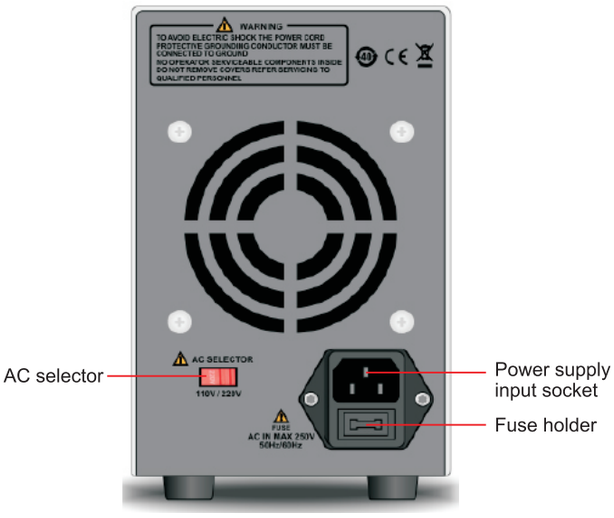


1) ***Power button***
2) ***CC (constant current) indicator:***
   This indicator is on during constant current operation.
3) ***CV (constant voltage) indicator:***
   This indicator is on during constant voltage operation.
4) ***Voltage display***
5) ***Current display***
6) ***Voltage coarse adjustment knob:***
   Turn it clockwise to increase the output voltage and turn it counterclockwise to decrease the output voltage.
7) ***Voltage fine adjustment knob:***
   Turn it clockwise to increase the output voltage and turn it counterclockwise to decrease the output voltage. FINE and COARSE can be used together to adjust the output voltage to the exact value required.
8) ***Current coarse adjustment knob:***
   Turn it clockwise to increase the output current and turn it counterclockwise to decrease the output current.
9) ***Current fine adjustment knob:***
   Turn it clockwise to increase the output current and turn it counterclockwise to decrease the output current. FINE and COARSE can be used together to adjust the output current to the exact value required.
10) ***0~30V output terminal "−"pole (black).***
11) ***Ground terminal (GND, green):***
    This terminal is connected to the chassis and the ground wire of the power cord.
12) ***0~30V output terminal "+"pole (red).***

Note:
A temperature recovery fuse is installed inside the transformer of the product, when the internal temperature of the transformer exceeds 130 degrees, the temperature recovery fuse is automatically disconnected, and the transformer is powered off; when the temperature drops below 130 degrees, the temperature recovery fuse is automatically connected, and the transformer starts to supply power.

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4.2 Rear Panel



5. Instructions and Protective Measures

1) Switch the POWER to the off state and connect the power cord attached to the power supply. Connect the L terminal of the power cord plug to the live wire of the power socket. The ground wire of the power cord should be ensured a good connection to the ground.
2) UTP3313TFL-II/UTP3315TFL-II is a floating type power supply. If grounding is required in use, connect the 0~30V output terminals “+”pole or “−”pole on the front panel to the GND with a wire.
3) To ensure good ventilation, keep a gap of 10cm between the upside/ downside/left side/right side and other objects. Do not expose this device to dusty environment, corrosive gases and other harmful substances.
4) Constant voltage output: Switch the POWER switch to the on state. The CV indicator will be on and the power supply will be under constant voltage operation. Adjust VOLTAGE knobs (C0ARSE and FINE) to obtain desired output voltage.
5) Constant current output: When no load is present, adjust the output voltage within 2~ 5V and counterclockwise turn the CURRENT knobs (COARSE and FINE) to "0” position. Use a wire size not less than 0.5mm2 to short-circuit the 0~30V output terminals “+” pole and “−” pole. At this time, the CC indicator will be on. Adjust the CURRENT knobs to reach the desirable current and disconnect the short-circuited wire.
6) In order to match the specifications, the power supply should be used after warming up for 15 minutes.

6. Packing List

1) DC power supply ---------- 1pc
2) Power cord ---------- 1pc
3) User manual ---------- 1pc
4) Fuse ---------- 1pc

7. Check before Booting

AC input power and AC selector settings

Model	AC input power	AC selector	Fuse specifications
UTP3313TFL-II	110Vac ±5%	110Vac	F2. 5AL250V
	220Vac ±5%	220Vac	F2AL250V
UTP3315TFL-II	110Vac ±5%	110Vac	F3. 15AL250V
	220Vac ±5%	220Vac	F2. 5AL250V

Please follow the steps below before booting.

1. Check the input power
   Make sure that the AC power cord meets the requirements in the AC input power column above (NOTE: Maximum input voltage ≤ 250V).
2. Check the AC selector
   Make sure that the settings of the AC selector on the rear panel of the device match the actual AC input power (please refer to the form above).
3. Check the fuse
   Check to see if the fuse specifications match the fuse required for the input voltage (please refer to the form above).

8. Maintenance

1) If the supply voltage is normal and the CC and CV indicators are not on or the digits are not displayed after starting up, the fuse may be blown or there may be other malfunctions. Turn off the power switch and unplug the power cord, then replace the fuse or seek professional advice.
2) At constant voltage state, if the output voltage is less than the preset value and the CC indicator is on (current protection), the device will automatically switch to the constant current working state. Users should check the load or increase the maximum current as required (adjust the CURRENT knobs clockwise).
3) At constant current state, if the output current is less than the preset value and the CV indicator is on (open circuit voltage protection), the device will automatically switch to the constant voltage working state. Users should check the load or increase the maximum voltage as required (adjust the VOLTAGE knobs clockwise).
4) At constant voltage state, if the device is unstable, the AC supply voltage may be lower than 99V/198V. If any malfunction is serious and cannot be resolved, please contact your local dealer.

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