



YIHUA 3005D-II Dual adjustable DC power supply



Input voltage: 110V/220V optional

Product weight: 10.5KG/PCS

Size: 46*34.5*23.5CM

Feature:

1. The 3005D-II power supply is a dual-channel DC power supply with continuously-adjustable current and voltage, a large-screen LED-backlit display, and built-in knobs to help operators eliminate hidden dangers resulting from faulty adjustment.

Channel II independent operations feature automatic tracking in series or in parallel. The third fixed output features selection between 2.5V, 3.3V, and 5V. Stunning in appearance and outstanding in performance, the machine is suitable for technology product development and use in laboratories, teaching, and electronics production lines as well as in essential communications industry equipment.

2. Independent Operations Mode, it means the machine has 2 groups 30V 5A output voltage and current.
3. Series Tracking Mode, it means the machine max output voltage is 60V, the max output current is 5A.
4. Parallel Tracking Mode, it means the max output voltage value is 30V, the output current is 10A.
5. The device has Fixed output, "SER" mode, can set fixed output, (the voltage fixed output value is 2.5V, 3.3V, 5V)
6. It features 3 positive and negative output voltage and current values. The 3 outputs can work simultaneously
7. 4-digit display for accurate displaying of current values, precise to mA value, the machine is built with SMT manufacturing and the latest technology
8. The machine inside transformer is copper, and inside has a fan, when the machine works temperature. Over 45 degrees, the fan will be work, it is good for heating radiation, can prolong the machine life.

Parameters

I, II Channel II Independent Mode

Output Voltage	Continuously adjustable between 0-30V
Output Current	Continuously adjustable between 0-5A
Power Effect	CV \leq 0.01%+1mV CC \leq 0.2%+1mA
Load Effect	CV \leq 0.01%+5mV (I \leq 3A) CC \leq 0.2%+5mA (I \leq 3A) CV \leq 0.01%+7mV (I $>$ 3A) CC \leq 0.2%+10mA (I $>$ 3A)
Ripple Noise (5Hz-1MHz)	CV \leq 0.5mVrms (I \leq 3A) CC \leq 3mArms (I \leq 3A) CV \leq 1mVrms (I $>$ 3A) CC \leq 5mArms (I $>$ 3A)
Voltage Accuracy	\pm 0.5%rdg+2 characters
Voltage Accuracy	\pm 0.5%rdg+2 characters
Display Resolution	\pm 0.5%rdg+2 characters

Channel III Output Characteristics

Rated Output Voltage	2.5V/3.3V/5V \pm 0.1
Rated Output Current	3A
Power Effect	\leq 1mV
Load Effect	\leq 10mV
Ripple Noise (5Hz-1MHz)	\leq 1mVrms

Tracking Characteristics
 Characteristics Operating in Series

Power Effect	$\leq 1\text{mV}$
Load Effect	$\leq 30\text{mV}$
Ripple Noise (5Hz-1MHz)	$\leq 1\text{mVrms}$

Characteristics Operating in Parallel

Power Effect	$\leq 1\text{mV}$
Load Effect	$\leq 20\text{mV}$
Ripple Noise (5Hz-1MHz)	$\text{CV} \leq 0.5\text{mVrms} (I \leq 6\text{A})$ $\text{CV} \leq 1\text{mVrms} (I > 6\text{A})$

Safety Requirements

HV Test	Leakage current $\leq 1\text{mA}$ (Test condition: input to ground of 1700VAC/2S)
Insulation Test	Insulation resistance $\geq 100\text{M}\Omega$ (Test condition: input to ground of 500VDC/5S)

Rated Operating Conditions and Dimensions

Supply Voltage	220V \pm 10% 50Hz (110V \pm 10% 60Hz if required)
Operating Conditions	Temperature 0 $^{\circ}$ C~40 $^{\circ}$ C Relative humidity <80%
Storage Conditions	Temperature -20 $^{\circ}$ C~80 $^{\circ}$ C Relative humidity <80%
Operating Method	CV/CC
Protection Methods	Current-limiting buck, short circuit protection, overheating protection
Cooling Method	Cool air
Dimensions	L370 \times W250 \times H160mm
Rated Output Power	315W