

**HYELEC®**

# Power Products Buyer's Guide



# Professional Laboratory Power Supplies

## Lock-in Voltage at Your Choice

**Microprocessor Technology**

**High precision with 4 digits**

**Using coding potentiometer to adjust**



### SPECIFICATIONS



MODEL	HY3005B	HY5003B	HY3010B
OUTPUT VOLTAGE	0~30V	0~50V	0~30V
OUTPUT CURRENT	0~5A	0~3A	0~10A
DISPLAY	2 LED DISPLAY		
RIPPLE AND NOISE	CV≤ 5mVr.m.s		
INPUT VOLTAGE	104~127V AC(60Hz), or 207~253V AC(50Hz) CAN BE SELECTED		
LINE REGULATION	CV≤ 0.05%+3mV CC≤0.2%+3mA		
LOAD REGULATION	CV≤ 0.05%+3mV CC≤0.5%+10mA		
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION		
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%		

# Professional Laboratory Power Supplies

## USB Charging function

**Microprocessor Technology**

**Using coding potentiometer to adjust**



- High precision
- Surge protection
- Precision adjustment
- Digital calibration
- lock function
- LCD color display
- Setting value is visible on the screen
- 2\*5V/2A USB charging

### SPECIFICATIONS



MODEL	HY3005BC
OUTPUT VOLTAGE	0~30V
OUTPUT CURRENT	0~5A
DISPLAY	LCD DISPLAY
RIPPLE AND NOISE	CV≤ 5mVr.m.s
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED
LINE REGULATION	CV≤ 0.05%+3mV CC≤0.2%+3mA
LOAD REGULATION	CV≤ 0.05%+3mV CC≤0.5%+10mA
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%

# Professional Laboratory Power Supplies

## USB Charging function

### For phone repairing



- High precision
- Surge protection
- Precision adjustment
- Digital calibration
- 4Digits LED displays
- 5V/2A USB charging

### SPECIFICATIONS



MODEL	HY3003E
OUTPUT VOLTAGE	0~30V
OUTPUT CURRENT	0~3A
DISPLAY	2 LED DISPLAY
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)
INPUT VOLTAGE	100V~253V AC (50Hz/60Hz)
DIMENSION/WEIGHT	213*78*158mm/1.03kg(NET.)
LINE REGULATION	CV≤0.05%+3mV CC≤0.2%+3mA
LOAD REGULATION	CV≤0.05%+3mV CC≤0.5%+10mA
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C
	RELATIVE HUMIDITY:90%

# Professional Laboratory Power Supplies



HY3005E is a high precision DC power supply, adapts single chip integrated circuit technology, the voltage resolution is 10mV and current resolution is 1mA. LED display with stable data indication. Rational construction and light weight enable the product reliable and easy to be carried by user. With a fan on the back can ensure the HY3005E work in a suitable temperature. It is an high cost-effectiveness DC power supply for laboratory factory and digital repairing company. Hangzhou HuaYi Electronics Industry Co., Ltd is a professional DC power supply manufacturer. High quality and high cost-effectiveness is our purpose. Our website [www.hy-elec.com](http://www.hy-elec.com)

## SPECIFICATIONS



MODEL	HY3005E	HY5003E	HY6003E	HY10001E
OUTPUT VOLTAGE	0~30V	0~50V	0~60V	0~100V
OUTPUT CURRENT	0~5A	0~3A	0~3A	0~1A
DISPLAY	2 LED DISPLAY			
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)			
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED			
LINE REGULATION	CV≤0.05%+3mV CC≤0.2%+3mA			
LOAD REGULATION	CV≤0.05%+3mV CC≤0.5%+10mA			
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION			
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%			

# Professional Laboratory Power Supplies

## Pocket DC power supply



**6-WAYS MULTI-VOLTAGE  
2 AMP.REGULATED POWER SUPPLY**



**ADJUSTABLE VOLTAGE 1.5V-15V  
2 AMP.REGULATED POWER SUPPLY**

### SPECIFICATIONS



MODEL	PS-28	PS-28A
OUTPUT VOLTAGE	3,4.5,6,7.5,9,12V DC	1.5~15V DC
OUTPUT CURRENT	2A(Max.)	
DISPLAY	NO	2 LED DISPLAY
RIPPLE AND NOISE	CV≤10mVrms	
INPUT VOLTAGE	100V~253V AC (50Hz/60Hz)	
DIMENSION/WEIGHT	138*115*60mm/0.35kg	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C	
	RELATIVE HUMIDITY:90%	

# Professional Laboratory Power Supplies

## DC Regulated Power Supply



**Linear Mode**

### SPECIFICATIONS



MODEL	HY1503D	HY1802D
OUTPUT VOLTAGE	0~15V	0~18V
OUTPUT CURRENT	0~3A	0~2A
DISPLAY	2 LED DISPLAY	
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)	
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED	
LINE REGULATION	CV≤0.05%+3mV CC≤0.2%+3mA	
LOAD REGULATION	CV≤0.05%+3mV CC≤0.5%+10mA	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%	

# Professional Laboratory Power Supplies

## Microprocessor Technology

High precision with 4 digits

Adjusting by Coding potentiometer



### SPECIFICATIONS

MODEL	HY3020B
OUTPUT VOLTAGE	0~30V
OUTPUT CURRENT	0~20A
DISPLAY	2 LED DISPLAY
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED
LINE REGULATION	CV≤0.02%+3mV CC≤0.5%+3mA
LOAD REGULATION	CV≤0.1%+5mV CC≤0.5%+20mA
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%

# Professional Laboratory Power Supplies

## Lock-in Voltage at Your Choice

*Microprocessor Technology*

*High precision with 4 digits*

*Using coding potentiometer to adjust*



### SPECIFICATIONS

MODEL	HY3003L-3	HY3005L-3	HY3005B-3
OUTPUT VOLTAGE	2X0~30V	2X0~30V	2X0~30V
OUTPUT CURRENT	2X0~3A	2X0~5A	2X0~5A
FIXED OUTPUT	5V, 3A	5V, 3A	5V, 3A
DISPLAY	4 LED DISPLAY		
RIPPLE AND NOISE	CV≤0.5mVr.m.s (linear)		
INPUT VOLTAGE	104~127V AC(60Hz), or 207~253V AC(50Hz) CAN BE SELECTED		
LINE REGULATION	CV≤0.01% +2mV CC≤0.2%+2mA		
LOAD REGULATION	CV≤0.01% +5mV CC≤0.2%+5mA		
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION		
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%		

# Professional Laboratory Power Supplies

## HY3000M Single Output Series

### FEATURES:

- With microchip processing technology , output value can be intuitively set
- Bigger LED digits displays, output can be cut off
- High-stabilized, constant voltage and constant current can be auto converted
- Protection:Constant current(Overload protection), Short-circuit protection.

### LATEST EXPORT PRODUCT



## Linear Mode

### SPECIFICATIONS



MODEL	HY3005M	HY3005MR	HY5003M	HY5003MR
OUTPUT VOLTAGE	0~30V	0~30V	0~50V	0~50V
OUTPUT CURRENT	0~5A	0~5A	0~3A	0~3A
INTERFACE	NO	USB	NO	USB
RIPPLE AND NOISE	CV $\leq$ 0.5mVr.m.s (linear)			
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED			
LINE REGULATION	CV $\leq$ 0.01% +2mV CC $\leq$ 0.2%+2mA			
LOAD REGULATION	CV $\leq$ 0.01% +5mV CC $\leq$ 0.2%+5mA			
DISPLAY	2 LED DISPLAY			
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION			
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%			

# Professional Laboratory Power Supplies

## HY3000M Single Output Series

LOCK-IN VOLTAGE

AT YOUR CHOICE



### Switching Mode

### SPECIFICATIONS



MODEL	HY3005M(S)	HY5003M(S)
OUTPUT VOLTAGE	0~30V	0~50V
OUTPUT CURRENT	0~5A	0~3A
INTERFACE	NO	NO
RIPPLE AND NOISE	CV $\leq$ 1mVr.m.s(swiching), I $\leq$ 4A	
INPUT VOLTAGE	104~127V AC(60Hz), or 207~253V AC(50Hz) CAN BE SELECTED	
LINE REGULATION	CV $\leq$ 0.01% +2mV CC $\leq$ 0.2%+2mA	
LOAD REGULATION	CV $\leq$ 0.01% +5mV CC $\leq$ 0.2%+5mA	
DISPLAY	2 LED DISPLAY	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40 $^{\circ}$ C RELATIVE HUMIDITY:90%	

# Professional Laboratory Power Supplies

## Lock-in Voltage at Your Choice

Microprocessor Technology

Latest Export Product

USB Optional



### FEATURES:

- With microchip processing technology , output value can be intuitively set
- Bigger LED digits displays, output can be cut off.
- High-stabilized , constant voltage and constant current can be auto converted
- Protection:Constant current(Overload protection), Short-circuit protection.

### LATEST EXPORT PRODUCT

### SPECIFICATIONS



MODEL	HY3010MR	HY3020MR
OUTPUT VOLTAGE	0~30V	0~30V
OUTPUT CURRENT	0~10A	0~20A
INTERFACE	USB	
RIPPLE AND NOISE	CV $\leq$ 1mVr.m.s(switcing)	
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz) CAN BE SELECTED	
LINE REGULATION	CV $\leq$ 0.01% +2mV CC $\leq$ 0.2%+2mA	
LOAD REGULATION	CV $\leq$ 0.01% +5mV CC $\leq$ 0.2%+5mA	
DISPLAY	2 LED DISPLAY	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40℃ RELATIVE HUMIDITY:90%	

# Professional Laboratory Power Supplies

## Lock-in Voltage at Your Choice

**Microprocessor Technology**

**Latest Export Product**

**USB Optional**

The HY3000M-3 series power supplies are the high precision, digital control units. These series power supply make use of the constantly monitors and stabilizes these parameters, displays and protection functions. This technology highly improves on accuracy, micro adjustments, easy to use and eliminates previous errors, instability caused by traditional components used.

Another major benefit is its ability to lock-in a user's set parameter. That is, it can memorize one set of user-defined parameter so that it is more personal than ever before. On top the last user's settings are also memorized so that when switch on, the last parameter will show up automatically. This function enables user friendly and conveniently avoiding unnecessary adjustment every time, voiding re-adjustment every time. Less mistakes, more user friendly.



### TECHNICAL PARAMETERS:



MODEL	HY3003M-2	HY3005M-2	HY3003M-3	HY3005M-3	HY3005MR-3
OUTPUT VOLTAGE	2X0~30V	2X0~30V	2X0~30V	2X0~30V	2X0~30V
OUTPUT CURRENT	2X0~3A	2X0~5A	2X0~3A	2X0~5A	2X0~5A
FIXED OUTPUT	NO	NO	5V,3A	5V,3A	5V,3A
INTERFACE	NO				USB
DISPLAY	4 LED DISPLAY				
RIPPLE AND NOISE	CV≤0.5mVr.m.s (linear)				
INPUT VOLTAGE	104~127V AC(60Hz), or 207~253V AC(50Hz) CAN BE SELECTED				
LINE REGULATION	CV≤0.01% +2mV CC≤0.2%+2mA				
LOAD REGULATION	CV≤0.01% +5mV CC≤0.2%+5mA				
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION				
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C RELATIVE HUMIDITY:90%				

# Professional Laboratory Power Supplies

## Linear Mode Power Supply

### F series with fixed output



## SPECIFICATIONS



MODEL	HY3005F	HY5003F
OUTPUT VOLTAGE	0~30V	0~50V
OUTPUT CURRENT	0~5A	0~3A
FIXED OUTPUT	5V/3A(max.)	
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)	
INPUT VOLTAGE	104~127V AC(60Hz), or 207~253V AC(50Hz)	
DIMENSION/WEIGHT	278*132*160mm/4.5kg(NET.)	
LINE REGULATION	CV≤0.1%+3mV CC≤0.2%+3mA	
LOAD REGULATION	CV≤0.01%+5mV CC≤0.2%+5mA	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C	
	RELATIVE HUMIDITY:90%	

# Professional Laboratory Power Supplies

## Linear Mode Power Supply

### Triple output power supply



## SPECIFICATIONS



MODEL	HY3005F-3	HY5003F-3
OUTPUT VOLTAGE	2*0~30V	2*0~50V
OUTPUT CURRENT	2*0~5A	2*0~3A
FIXED OUTPUT	5V/3A(max.)	
RIPPLE AND NOISE	CV≤1mVr.m.s(switching)	
INPUT VOLTAGE	104~127V AC(60Hz),or 207~253V AC(50Hz)	
DIMENSION/WEIGHT	365*265*164mm/9kg(NET.)	
LINE REGULATION	CV≤0.1%+3mV CC≤0.2%+3mA	
LOAD REGULATION	CV≤0.01%+5mV CC≤0.2%+5mA	
PROTECTION	CONSTANT CURRENT AND SHORT-CIRCUIT PROTECTION	
ENVIRONMENT	OPERATING TEMPERATURE:0~+40°C	
	RELATIVE HUMIDITY:90%	

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