

# AC Power Supply

## Programmable AC Test Power Supply TFB-series

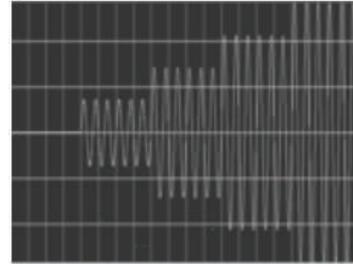
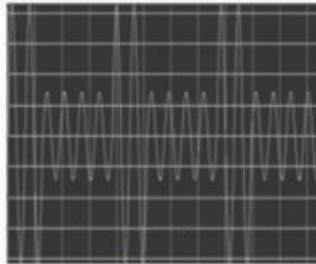
### Product description:

TFB-series is High-Precision Programmable AC Test Power Supply, This series power supplies can output the voltage of power grids in various countries around the world and simulate the normal and abnormal conditions of power grids in various countries according to relevant standards and regulations.



### Features

- It has output modes such as AC, DC and AC+DC.
- Programmable testing meets the voltage frequency variation test requirements of IEC61000-4-11, IEC61000-4-14 and IEC61000-4-28.



- The harmonic and interharmonic modes can be superimposed with 2-40th harmonic components on the basis of 50Hz/60Hz, or with interharmonic components of 15-2400Hz, to meet the IEC61000-4-13 harmonic and subharmonic waveform synthesis test requirements (except for single-phase conventional type and three-phase output type).
- Programmable output impedance testing meets IEC61000-3-3 testing requirements (except for three-phase output type).
- Outputs high peak current, providing an ideal surge test environment
- Pulse output function to realize voltage surge testing and simulate interference in actual power grid.
- The step and sequence test functions meet the testing requirements for complex voltage and frequency changes.
- Provide an external analog signal input interface to realize power amplification of external input signals.

### Ordering Information

- TFB-1000P** : 500VA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC with Harmonic function
- TFB-1001P** : 1kVA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC mode with Harmonic function
- TFB-1002P** : 2kVA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC mode with Harmonic function
- TFB-1000** : 500VA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC mode
- TFB-1001** : 1kVA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC mode
- TFB-1002** : 2kVA Programmable AC Test Power Supply,  
1p, AC/DC/AC+DC mode
- TFB-3001** : 1.5kVA Programmable AC Test Power Supply,  
3p, AC mode
- TFB-3003** : 3kVA Programmable AC Test Power Supply,  
3p, AC mode
- TFB-3006** : 6kVA Programmable AC Test Power Supply,  
3p, AC mode

### Standard Accessories :

- User Manual
- Operation Software

### Optional Accessories :

- RS-485 interface port
- Analog output control

# AC Power Supply

## Specifications

Model	TFB-1000P	TFB-1001P	TFB-1002P	TFB-1000	TFB-1001	TFB-1002	TFB-3001	TFB-3003	TFB-3006	
Output Capacity	500VA	1kVA	2kVA	500VA	1kVA	2kVA	15kVA	3kVA	6kVA	
<b>Test Function</b>										
Output Mode	AC, DC, AC+DC						AC			
Programming Function	9 sets of 8 steps gradual, step and sequence test									
Waveform Format	Standard waveform, harmonic synthesis, pulse waveform, start/stop angle setting waveform						Standard waveform, pulse waveform, start/stop angle setting waveform			
<b>AC Output Parameter</b>										
Output Phase Number	Single-phase, 2 wires						Three-phase, 4 wires			
Output Voltage	Low Gear	0.0 ~ 150.0V			Rate voltage : 125V					
	High Gear	0.1 ~ 300.0V			Rate voltage : 250V					
Voltage Setting Accuracy	≤0.4%			Resolution : 0.1V						
Rate Current	Low Gear	4A	8A	16A	4A	8A	16A	4A	8A	16A
	High Gear	2A	4A	8A	2A	4A	8A	2A	4A	8A
Peak Current	Low Gear	24A	48A	96A	24A	48A	96A	24A	48A	96A
	High Gear	12A	24A	48A	12A	24A	48A	12A	24A	48A
Output Frequency	15.0 ~ 1000.0Hz									
Frequency Setting Accuracy	0.15%			Resolution 0.1Hz						
Voltage Distortion	≤0.3%@50Hz/60Hz      ≤ 0.1Hz@50Hz/60Hz									
Program Output Impedance	0Ω+200μH ~ 1Ω+1mH									
Wave Amplitude	2 ~ 4 times									
Harmonic Amplitude	15 ~ 2400Hz									
<b>AC Measurement</b>										
Voltage Measurement Accuracy	Accuracy : 0.2%FS+0.2% of displayed value				Resolution : 0.1V					
RMS Current Measurement Accuracy	Accuracy : 0.3%FS+0.4% of displayed value				Resolution : 0.1A					
Peak Current Measurement Accuracy	Accuracy : 0.6%FS+0.4% of displayed value				Resolution : 0.1A					
Power Measurement Accuracy	Accuracy : 0.4%FS+0.4% of displayed value				Resolution : 0.1W					
<b>DC Output Parameters</b>										
Rated Power	250W	500W	1kW	250W	500W	1kW				
Output Voltage	Low Gear	0.0 ~ 212.0V								
	High Gear	0.0 ~ 424.0V								
Voltage Setting Accuracy	Accuracy : ±1V			Resolution : 0.1V						
Rated Current	Low Gear	2A	4A	8A	1A	2A	8A			
	High Gear	1A	2A	4A	1A	2A	8A			
<b>Remote Interface</b>										
Communication Interface	RS-232									
<b>Input Parameters</b>										
Input Phase Number	Single-phase, 2 wires +PE						Three-phase, 4 wires +PE			
Input Voltage Range	90 ~ 250V						360 ~ 410V			
Input Frequency Range	47 ~ 63Hz									
Input Power Factor	> 0.97									
<b>General Features</b>										
Working Temperature	0 ~ 40°C									
Storage Temperature	-40°C ~ 85°C									
Working Humidity	30 ~ 90%RH (non-condensation)									
Dimension (WxHxD)	483x134x610mm.						515x650x710 mm.			
Weight (kg.)	25kg.						125kg.			

Safety Tester

AC Power Supply

DC Power Supply

Power Analyzer

Electronic Load

Resistance Tester

LCR Meter

Temperature Tester

Environmental Tester

General Tester