


**IT7321**

### ■ Future

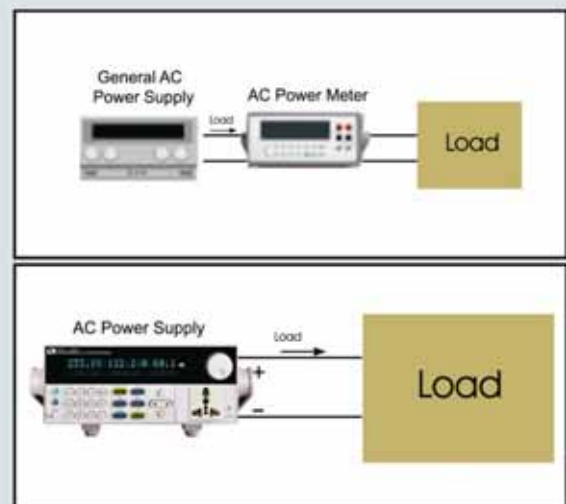
- Voltage of IT7321: 0~150V/0~300V/Auto
- Adjustable frequency, range: 45Hz~500Hz
- Accurate linear amplifier technology, low noise and high stability
- High density design to save space; size of 300VA is 1/2U; while 1500VA is 3U
- Set output change rate of voltage and frequency
- Set output limit of voltage and current
- Test current surge by high current peak factor
- TRIAC Dimmer simulation function
- Output synchronous TTL signal
- List mode , PLD test , analogue voltage sags, short supply interruption, simulation voltage change
- Measure kinds of parameters: RMS voltage/current, effective power, power factor, VA, peak current
- The 0.01W/0.1mA resolution meets requirement of energy star
- Built-in GPIB/RS232/USB/LAN interface  
 \*IT7321 doesn't have GPIB interface

Model	Specification
IT7321	300V/3A/300VA
IT7322	300V/6A/750VA
IT7324	300V/12A/1500VA
IT7326	300V/24A/3000VA

### IT7300 Series AC power supply

In order to get higher AC and more complex change characteristic, engineer need a powerful and stability AC power supply to simulate the real working conditions. IT7300 series provides best solution for this application. It provides different kinds of normal and abnormal AC and measures main electronic performance parameters of DUT. All these functions make it is suitable to use in the following industries, Electrical& Electronic, Lighting, Aeronautics & Astronautics, and Military, etc.

IT7300 = "AC power supply"  
+ "power meter"



Normally, when test AC products, a power meter is needed to connect between AC power supply and DUT in series. Since power meter is built-in in IT7300, user don't need to connect an extra power meter. It not only easy for test, but also save cost.

### Liner amplifier technology

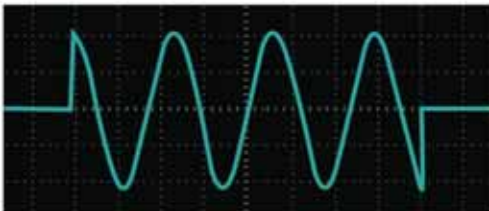
IT7300 could output with low noise and high stability. It's low noise avoids the measurement disturbance for DUT and ensures precision of the test report.

### Multi-function high precision measurement

With high precision 16 bit analogue/digital converter and high speed calculate ability, IT7300 series measures kinds of electronic parameters, real RMS voltage/current, effective power, power factor, VA and peak current. Meanwhile, its resolution reaches 0.01W/0.1mA, which meets requirement of energy star. So, IT7300 series is not only an AC power supply, but also a powerful power meter.

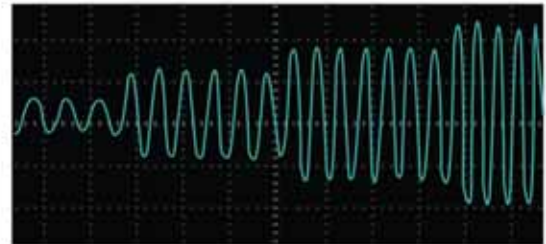
### Adjustable phase angle

Start and end phase are settable. This function could be used to test current surge and debug rectifier. Range of phase angle is 0~360°

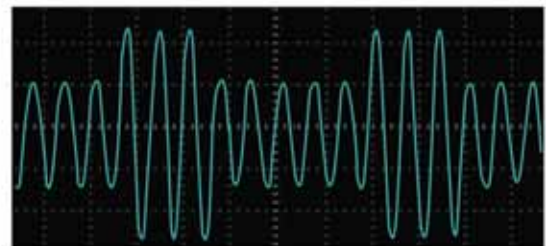


### Disturbance analogue of input power supply

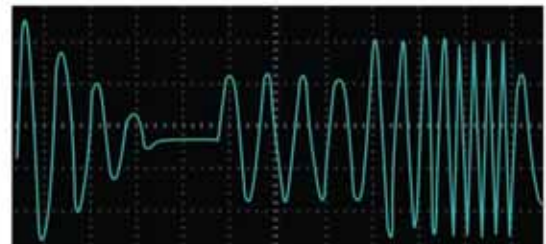
With built-in DDS wave generator, IT7300 has waveform simulation function. Engineer could real set waveform of the power supply on the front panel to simulate the characteristics, instant break, surge, open/close special phase angle, slow rise/fall of voltage and frequency. The user could simulate test of AC PLD by List, Pulse and Step function. IT7300 is good for user to test electronic products under abnormal environment and test according to IEC61000-4-11 and -4-14/-4-28.



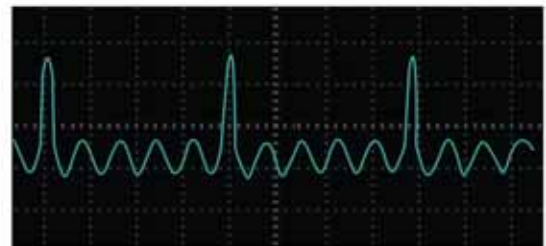
Step mode



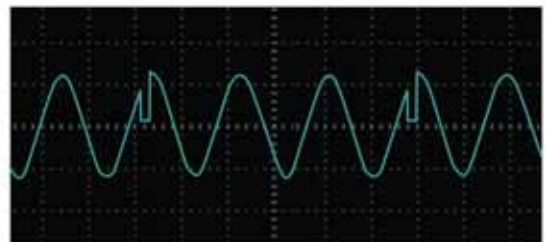
Pulse mode



List mode



Surge waveform



Trap wave



### Standard powerful communication interface

IT7300 offers VFD display and keyboard. Users could program it by PC via GPIB/USB/RS232/LAN interfaces. In addition, ITECH provide driver and LabView software to control the power supply.

### IT7000 software

IT7000 software offers sweep test, list test, quick setting, phase dimmer test, report and save the data.

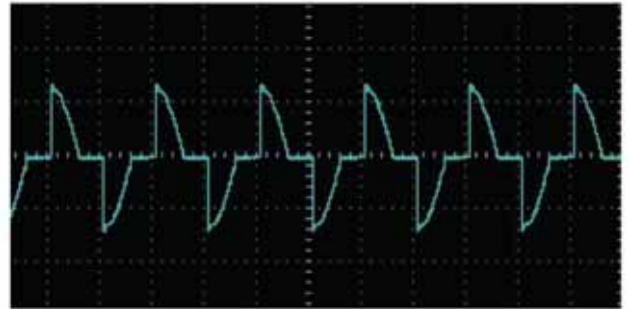


### High stability

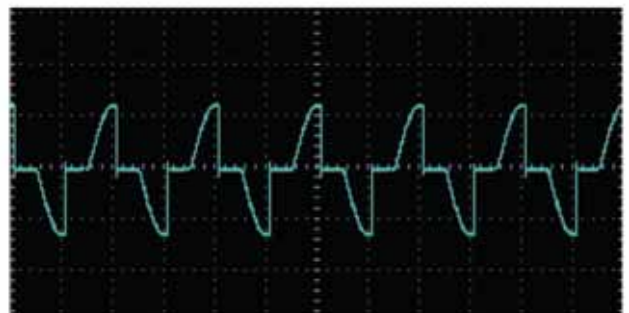
Basic on professional high anti-environment disturbance technology, self-diagnosis design and OCP/OPP/OTP protections, this series power supply could work well even in bad environment. IT7300 AC power supply assists engineer to ensure quality for products.

### TRIAC Dimmer simulation function

ITECH is the pioneer of TRIAC Dimmer function. This function is used to do dimming and speed regulating test for lamp or electric motor to ensure the products work well when controller of dimming and speed regulating is needed.



Front phase dimmer



Back phase dimmer

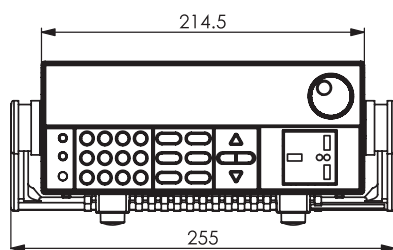
### SWEEP function

This function tests efficiency of switch power supply and gets voltage and frequency value at max power. It could change voltage and frequency by setting start voltage value, end voltage value, stepping voltage value, start frequency, end frequency, stepping frequency and time of each step. Time unit of each step could be S, M, H. And it saves 10 files at most. Voltage, frequency and current of max power will be display after the test is over.

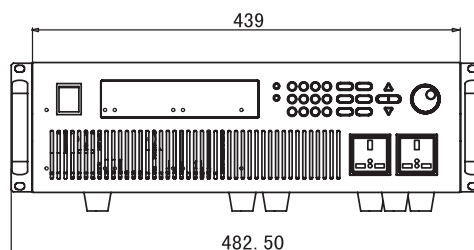


## Specification

IT7321			IT7322		
INPUT					
Phase		1		1	
Voltage		220Vac±10% 220Vac±10%		220Vac±10%	
Frequency		47-63Hz		47-63Hz	
Max.Current		8A		15A	
Power Factor		0.5(typical)		0.7(typical)	
AC OUTPUT					
Max.Power		300VA		750VA	
Max Current(rms)	0-150V	3.0A		6A(0-150V)	
	0-300V	1.5A		3A(0-300V)	
Max Current(peak)	0-150V	12A		24A (0-150V)	
	0-300V	6A		12A(0-300V)	
Phase		1Φ/2W		1Φ/2W	
Total Harmonic Distortion(T.H.D)		≤0.5% at 45-500Hz (Resistive Load)		≤0.5% at 45-500Hz (Resistive Load)	
Crest Factor		≥4		≥4	
Line Regulation		0.1% max for a ±10% line change		0.1% max for a ±10% line change	
Load Regulation		≤0.5%FS(Resistive Load)		≤0.5%FS (Resistive Load)	
Response Time		<100uS		<100uS	
SETTING					
Voltage	Range	0-300V, 150/300V Auto		0-300V, 150/300V Auto	
	Resolution	0.1V		0.1V	
	Accuracy	±(0.2%+0.6V)		±(0.2% +0.6V)	
Frequency	Range	45-500Hz		45-500Hz	
	Resolution	0.1Hz at 45-99.9Hz 1Hz at 100-500Hz		0.1Hz at 45-99.9Hz 1Hz at 100-500Hz	
	Accuracy	0.1Hz		0.1HZ	
Phase Angle	Range	0-360°		0-360°	
	Resolution	0.1°		0.1°	
	Accuracy	±1°(45-65Hz)		±1°(45-65Hz)	
MEASUREMENT					
Voltage(rms)	Range	0-300V		0-300V	
	Resolution	0.1V		0.1V	
	Accuracy	±(0.2%+0.6V)		±(0.2% + 0.6V)	
Current(rms)	Range	L:120.0mA * M:1.200A * H:3.00A *		L:120.0mA/ M:1.200A/ H:3.00A	
	Resolution	L:0.1mA M:1mA H:10mA		L:0.1mA/ M:1mA/ H:10 mA	
	Accuracy	L:±(0.2%+0.4mA) M:±(0.2%+4mA) H:±(0.2%+20mA)			
Current(peak)	Range	0-12A		0-12A	
	Resolution	0.01A		0.01A	
	Accuracy	±(1%+120mA)		±(1% + 120mA)	
Power	Resolution	L:0.01W M:0.1W H:1W		L:0.01W/ M:0.1W/ H:1W	
	Accuracy	L:±(0.2%+0.05W) (47HZ-65HZ) M:±(0.2%+0.5W) (47HZ-65HZ) H:±(0.2%+2W) (47HZ-65HZ)			
GENERAL					
Memory		10 memories		10 memories	
Sync Output Signal		Output Signal 5V,BNC type		Output Signal 5V, BNC type	
Operation Environment		0-40℃/20-80%RH		0-40℃/20-80%RH	
Dimension		½ 19" 2U		19" 3U	
Interface		LAN/USB/RS232		LAN/USB/RS232/GPIB	



IT7321



IT7324



## Specification

IT7324			IT7326		
INPUT					
Phase		1		1	
Voltage		220Vac±10%		220Vac±10%	
Frequency		47-63Hz		47-63Hz	
Max.Current		30A		60A	
Power Factor		0.7(typical)		0.7(typical)	
AC OUTPUT					
Max.Power		1500VA		3000VA	
Max Current(rms)	0-150V	12A(0-150V)		24A(0-150V)	
	0-300V	6A(0-300V)		12A(0-300V)	
Max Current(peak)	0-150V	48A (0-150V)		96A (0-150V)	
	0-300V	24A(0-300V)		48A(0-300V)	
Phase		1Φ/2W		1Φ/2W	
Total Harmonic Distortion(T.H.D)		≤0.5% at 45-500Hz (Resistive Load)		≤0.5% at 45-500Hz (Resistive Load)	
Crest Factor		≥4		≥4	
Line Regulation		0.1% max for a ±10% line change		0.1% max for a ±10% line change	
Load Regulation		≤0.5%FS (Resistive Load)		≤0.5%FS (Resistive Load)	
Response Time		<100uS		<100uS	
SETTING					
Voltage	Range	0-300V, 150/300V Auto		0-300V, 150/300V Auto	
	Resolution	0.1V		0.1V	
	Accuracy	±(0.2% +0.6V)		±(0.2% +0.6V)	
Frequency	Range	45-500Hz		45-500Hz	
	Resolution	0.1Hz at 45-99.9Hz 1Hz at 100-500Hz		0.1Hz at 45-99.9Hz 1Hz at 100-500Hz	
	Accuracy	0.1HZ		0.1HZ	
Phase Angle	Range	0-360°		0-360°	
	Resolution	0.1°		0.1°	
	Accuracy	±1°(45-65Hz)		±1°(45-65Hz)	
MEASUREMENT					
Voltage(rms)	Range	0-300V		0-300V	
	Resolution	0.1V		0.1V	
	Accuracy	±(0.2% + 0.6V)		±(0.2% + 0.6V)	
Current(rms)	Range	L:120.0mA/ M:1.200A/ H:3.00A		L:120.0mA/ M:1.200A/ H:12.00A	
	Resolution	L:0.1mA/ M:1mA/ H:10 mA		L:0.1mA/ M:1mA/ H:10 mA	
	Accuracy	L: ±(0.2%+0.4mA)/ M: ±(0.2%+4mA)/ H: ±(0.2%+20mA)			
Current(peak)	Range	0-12A		0-96A	
	Resolution	0.01A		0.01A	
	Accuracy	±(1% + 120mA)		±(1% + 120mA)	
Power	Resolution	L:0.01W/ M:0.1W/ H:1W		L:0.01W/ M:0.1W/ H:1W	
	Accuracy	L: ±(0.2%+0.05W) (47HZ-65HZ)/ M: ±(0.2%+0.5W) (47HZ-65HZ)/ H: ±(0.2%+2W) (47HZ-65HZ)			
GENERAL					
Memory		10 memories		10 memories	
Sync Output Signal		Output Signal 5V, BNC type		Output Signal 5V, BNC type	
Operation Environment		0-40℃/20-80%RH		0-40℃/20-80%RH	
Dimension		19" 3U		19" 6U	
Interface		LAN/USB/RS232/GPIB		LAN/USB/RS232/GPIB	



IT7324



IT7326

### Standard accessory

Power cord

Calibration report

User manual