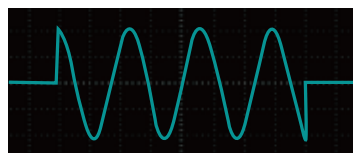


No power frequency transformer power supply, low power consumption

IT7300 series AC source provide no power frequency transformer power supply with lower power consumption, it solves output problems of large volume, huge heat dissipation and low power output caused by using frequency transformer, IT7300 series also provide linear adaptation method between the current and AC voltage in AC source, which solves the problem of high energy consumption and low accuracy.

Adjustable phase angle

Users can set the start and stop phase angle within range of 0-360°. This function is widely used for startup and shutdown current inrush impact test or various rectifier performance tests.



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.



Leading Edge



Trailing Edge

Sweep function

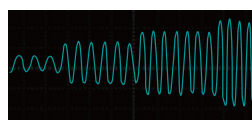
This function tests efficiency of switch power supply and gets voltage and frequency value at max power. It could change voltage and frequency by setting start voltage value, end frequency, stepping frequency and time of each step. It saves 10 files max. Voltage, frequency and current of max power will be displayed when the test is over.

Support Three-phase Parallel function

IT7300 series AC source can achieve three-phase without requiring external accessories, users can directly connect into three-phase through the back of the SYSTEM BUS, set one of them as master, the rest are slaves. The slave sends synchronous clock control signal according to each cycle of the DDS inside the device, so that the phase difference is always maintained at 120° and does not deviate greatly in long time running. It is flexible to meet the increase or decrease requirements of production line aging test machine numbers.

List function

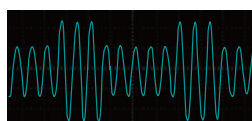
IT7300 series has built-in DDS waveform generator, very flexible waveform simulation function. Users can directly set the required power waveform through the panel keys, to simulate transient power off, surge, trap, specific phase angle on or off, AC sine wave amplitude and frequency range and other characteristics.



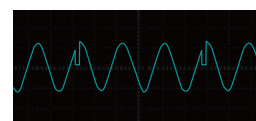
STEP mode



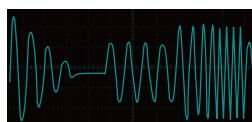
Surge waveform



PULSE mode



Trap waveform



LIST mode



IT7300 Specifications

Model	IT7322	IT7322H	IT7324H
INPUT			
Phase	1	1	1
Voltage	220Vac±10% or 110Vac±10%	220Vac±10% or 110Vac±10%	220Vac±10% or 110Vac±10%
Frequency	47~63Hz	47~63Hz	47~63Hz
Max current	15A(220Vac) or 30A(110Vac)	20A(220Vac) or 40A(110Vac)	30A(220Vac) or 60A(110Vac)
Power factor	0.7(typical)	0.7(typical)	0.7(typical)
AC OUTPUT			
Max power	750VA	750VA	1500VA
Max current (rms)	6A 3A	0~250V 3A 0~500V 1.5A	0~250V 6A 0~500V 3A
Max current (peak)	18A 9A	0~250V 9A 0~500V 4.5A	0~250V 18A 0~500V 9A
Phase	1Φ/2W	1Φ/2W	1Φ/2W
Total harmonic distortion(T.H.D)	≤0.5% at 45-500Hz (Resistive Load)	≤1% at 45-500Hz (Resistive Load)	≤1% at 45-500Hz (Resistive Load)
Crest factor	3	3	3
Power regulation	0.1% max for a ±10% line change	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)	≤0.5%FS(Resistive Load)
Response time	<100uS	<100uS	<100uS
SETTING			
Voltage	Range	0~300V High, 150/300V Auto	0~500V High, 250/500V Auto
	Resolution	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+1.2V)
Frequency	Temperature Coefficient	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
	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
Phase angle	Accuracy	0.1Hz	0.1Hz
	Range	0~360°	0~360°
	Resolution	0.1°	0.1°
Accuracy	±1°(45-65Hz)	±1°(45-65Hz)	±1°(45-65Hz)
MEASUREMENT			
Voltage(rms)	Range	0~300V	0~500V
	Resolution	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+1.2V)
Current(rms)	Temperature Coefficient	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
	Range	L:120.0mA * M:1.200A * H:6.00A *	L:120.0mA * M:1.200A * H:3.00A *
	Resolution	L:0.1mA M:1mA H:10mA	L:0.1mA M:1mA H:10mA
Current (peak)	Accuracy	L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+60mA)	L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+40mA)
	Temperature Coefficient	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
	Range	0~18A	0~9A
Power	Resolution	0.01A	0.01A
	Accuracy	±(1%+0.36A)	±(1%+0.36A)
	Temperature Coefficient	±(0.05% per degree from 25°C)	±(0.05% per degree from 25°C)
Power	Resolution	L:0.01W M:0.1W H:1W	L:0.01W M:0.1W H:1W
	Accuracy	L:±(0.2%+0.2W) (47HZ-65HZ)	L:±(0.2%+0.2W) (47HZ-65HZ)
	Temperature Coefficient	M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+6W) (47HZ-65HZ)	M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+6W) (47HZ-65HZ)
GENERAL			
Memory storage	10 memories	10 memories	10 memories
Synchronous output signal	Output Signal 5V,BNC type	Output Signal 5V,BNC type	Output Signal 5V,BNC type
Interface	LAN,USB,RS232 *	LAN,USB,RS232 *	LAN,USB,RS232 *
Operating environment	0~40°C/20-80%RH	0~40°C/20-80%RH	0~40°C/20-80%RH
Size	19" 3U	19" 3U	19" 3U
Weight	37Kg	37Kg	37Kg

* This information is subject to change without notice

* For any GPIB interface option request, check with ITECH for availability

