

IT7300 Programmable AC Power Supply



Applications

Motor industry, Illumination, Aviation, Military, Lab testing, Production line test, etc.

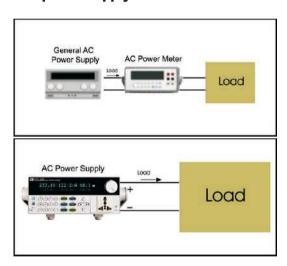
Feature

- Precision Linear amplification technology, low noise, high stability
- High power density design, 300VA for ½ 2U, save installation space
- Adjustable frequency:45HZ-500HZ
- Adjustable phase angle: 0-360°
- Set the output slew rate of voltage and frequency
- High current crest factor for inrush current testing
- TRIAC Dimmer dimming / governor simulation function
- Output the changed synchronous TTL signal
- LIST mode for testing power perturbation (PLD) simulation
- Simulate the surge, trap waveform
- Voltage dip, short interruption and voltage change simulation
- Measure various electrical parameters, including RMS voltage / current, actual power, power factor, VA (apparent power), peak current and other parameters
- Measurement resolution can reach 0.01W / 0.1mA, meet
 Energy Star standard requirement
- Built-in RS-232, USB and LAN (support SCPI protocol)
- OCP,OVP,OTP,OPP

Model	Specification
IT7321	300V/3A/300VA

IT7321 sets up the new standard for high performance AC power source. It equips with all powerful features such as power line disturbance (PLD) simulation, Dimmer and comprehensive measurement functions. IT7321 has built-in RS232 / USB / LAN communication interface. They can be applied to commercial, power electronics and military test applications from bench-top testing to mass production.

"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 IT7321, users don't need to connect an extra power meter. It is not only easy for test, but also save cost.



Linear Amplifier Technology

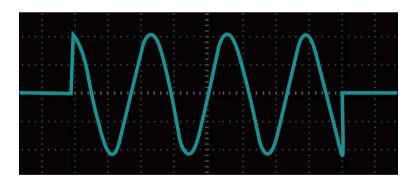
IT7321 AC source adopts latest linear technology which greatly reduces the output noise and ensures high working stability. Because of the lower ripple index, this AC source can assist user to get a more precision measuring result.

Multi-function & High Precision Measurement

IT7321 AC source uses advanced DSP circuit to get higher precision and high-speed measurement for true RMS voltage, true RMS current, true power, frequency, power factor and peak value. In addition, its high resolution 0.01W/0.1mA extends the application for Energy Star testing standard. IT7321 is not only an AC source, but also a powerful meter.

Adjustable Phase Angle

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

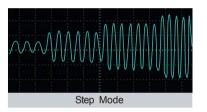


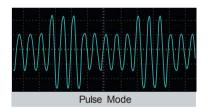
Built-in Communication Interface

An easy-to use rotary knob and self-guiding keypads allow you to set the output at your desired value without any effort. In addition, IT7321 AC source has built-in RS232/USB/LAN interface, providing customer high speed and stable communication quality.

Power Line Disturbanc Simulation Function

IT7321 provides powerful functions to simulate all kinds of power line disturbance conditions. The STEP and PULSE modes offer a method to execute a single step or continuous output changes. The LIST Mode, up to 100 sequences, extends this function for more complex waveform generator needs. In this way, IT7321 is capable of simulating all sorts of voltage dips. surge or trapped wave. The IT7321 enables users to perform the pre - compliance tests against IEC 61000-4-11 and compliance test against IEC 61000-4-14/-4-28 immunity test regulations.

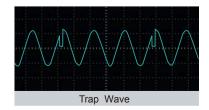








Surge Waveform

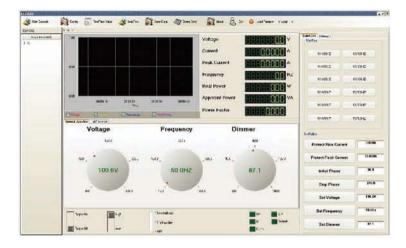


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IT9000 software

IT9000 software offers sweep test, list test, quick setting, phase dimmer test, report and save the data.



High Stability

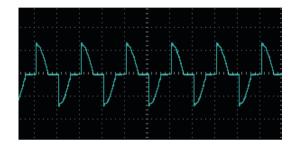
Based on professional high anti-environment disturbance technology, self-diagnosis design and OCP/OPP/OTP protections, this series power supply could work well even in bad environment. IT7321 AC power supply assists engineer to ensure quality for products.

SWEEP Function

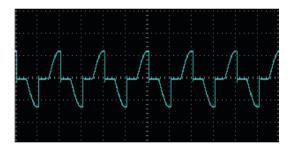
This function tests efficiency of switch power supply and gets voltage and frequency value at max power. It could change voltage and frequency by setting start voltage value, end voltage value, stepping voltage value, start frequency, end frequency, stepping frequency and time of each step. Time unit of each step could be S, M, H. And it can save 10 files. The voltage, frequency and current value etc. of max. power point will be displayed after finishing test.

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

Standard Accessories

User Manual

Power Cord

Calibration Report

H:±(0.2%+10W) (47HZ-65HZ)

±(0.05% per degree from 25°C)

Output Signal 5V,BNC type

LAN, USB, RS232, GPIB

0~40°C/20-80%RH 19"3U

10 memories



pecifications INPLIT Phase Voltage 220Vac±10% or 110Vac±10% 220Vac±10% or 110Vac±10% 220Vac±10% or 110Vac±10% 220Vac±10% or 110Vac±10% Frequency 47~63Hz 47~63Hz 15A(220Vac) or 30A(110Vac) 30A(220Vac) or 60A(110Vac) 6.3A(220Vac) or 10A(110Vac) 15A(220Vac) or 30A(110Vac) Max current Power factor 0.5(typical) 0.7(typical) 0.7(typical) 0.7(typical) AC OUTPUT 750VA 1500VA 300VA 750VA Max power 0~150V ЗА 6A 0~250V 6A Max current 3A 0~300V 0~500V 1.5A ЗА 1.5A ЗА Max current 0~150V 18A 0~250V 9A 18A 9A 0~300V 4 5A 9A 0~500V 9A 1Φ/2W 1Φ/2W 1Φ/3W 1Φ/2W Total harmonic distortion(T.H.D) ≤0.5% at 45-500Hz (Resistive Load) ≤0.5% at 45-500Hz (Resistive Load) ≤1% at 45-500Hz (Resistive Load) ≤1% at 45-500Hz (Resistive Load) Crest factor Power regulation 0.1% max for a ±10% line change ≤0.5%FS(Resistive Load) ≤0.5%FS(Resistive Load) ≤0.5%FS(Resistive Load) ≤0.5%FS(Resistive Load) Response time Range 0~300V High, 150/300V Auto 0-500V High, 250/500V Auto 0~500V High, 250/500V Auto 0~300V High, 150/300V Auto Resolution 0.1V 0.1V 0.1V 0.1V ±(0.2%+0.6V) ±(0.2%+1.2V) ±(0.2%+1.2V) +(0.2%+0.6\/) Accuracy ±(0.04% per degree from 25°C) TC*1 45~500Hz 45~500Hz 45~500Hz 45~500Hz Range Resolution 0.1Hz at 45-99.9Hz 1Hz at 100-500Hz Accuracy 0.1Hz 0.1Hz 0.1Hz Range 0~360 Resolution 0.1° ±1°(45-65Hz) ±1°(45-65Hz) ±1°(45-65Hz) Accuracy ±1°(45-65Hz) MEASUREMENT Range 0~300V 0~300V 0~500V 0~500V Resolution 0.1V 0.1V 0.1V Accuracy +(0.2%+0.6\/) +(0.2%+0.6\/) +(0.2%+1.2\/) ±(0.2%+1.2V) ±(0.04% per degree from 25°C) \pm (0.04% per degree from 25°C) ±(0.04% per degree from 25°C) ±(0.04% per degree from 25°C) TC*1 Range L:120.0mA * M:1.200A *H:3.00A * L:120.0mA * M:1.200A * H:6.00A * L:120.0mA * M:1.200A * H:3.00A * L:120.0mA * M:1.200A * H:6.00A * L:0.1mA M:1mA H:10mA L:0.1mA M:1mA H:10mA L:0.1mA M:1mA H:10mA L:0.1mA M:1mA H:10mA Resolution Current(rms) Accuracy L:+(0.2%+0.6mA) M:+(0.2%+6mA) L:+(0.2%+0.6mA) M:+(0.2%+6mA) L:+(0.2%+0.6mA) M:+(0.2%+6mA) L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+40mA) H:+(0.2%+60mA) H:+(0.2%+60mA) H:+(0.2%+60mA) ±(0.04% per degree from 25°C) TC*1 ±(0.04% per degree from 25°C) ±(0.04% per degree from 25°C) ±(0.04% per degree from 25°C) Range 0~24A 0~18A 0~9A 0~12A Current(peak) Resolution 0.01A 0.01A 0.01A 0.01A ±(1%+0.36A) ±(1%+0.36A) ±(1%+0.36A) ±(1%+0.36A) Accuracy TC*1 +(0.05% per degree from 25°C) ±(0.05% per degree from 25°C) ±(0.05% per degree from 25°C) +(0.05% per degree from 25°C) L:0.01W M:0.1W H:1W L:0.01W M:0.1W H:1W Resolution L:0.01W M:0.1W H:1W L:0.01W M:0.1W H:1W Power L:±(0.2%+0.2W) (47HZ-65HZ) L:±(0.2%+0.2W) (47HZ-65HZ) L:±(0.2%+0.2W) (47HZ-65HZ) L:±(0.2%+0.2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) ver supply and get Accuracy

H:±(0.2%+6W) (47HZ-65HZ)

±(0.05% per degree from 25°C)

Output Signal 5V,BNC type

LAN.USB.RS232.GPIB

0~40°C/20-80%RH

19"3U

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H:±(0.2%+4W) (47HZ-65HZ)

±(0.05% per degree from 25°C)

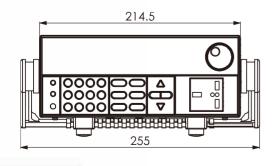
Output Signal 5V,BNC type

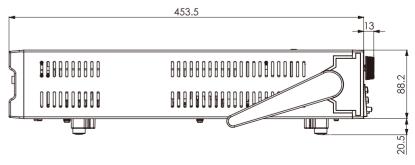
LAN.USB.RS232

0~40°C/20_80%PH

1/2 19" 2U

IT7321 Dimension figure





H:±(0.2%+10W) (47HZ-65HZ)

±(0.05% per degree from 25°C)

Output Signal 5V,BNC type

LAN.USB.RS232.GPIB

0-40°C/20-80%RH

10 memories

19"3U

Unit: mm

^{*} This information is subject to change without notice