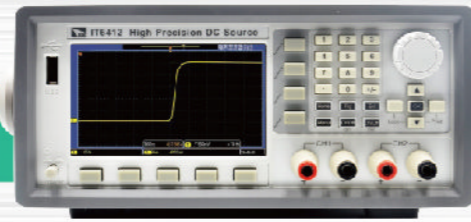


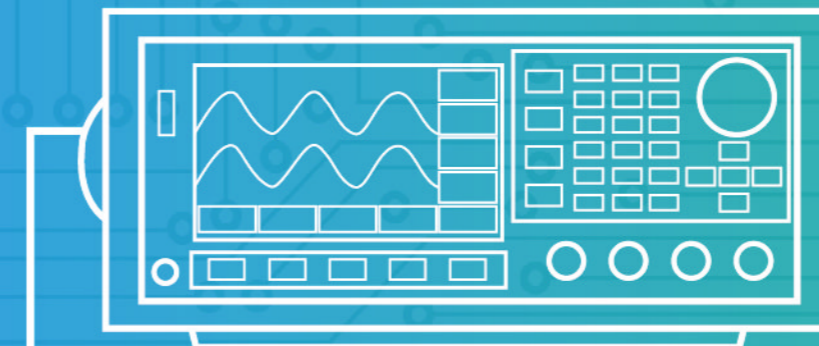
# IT6412 specification



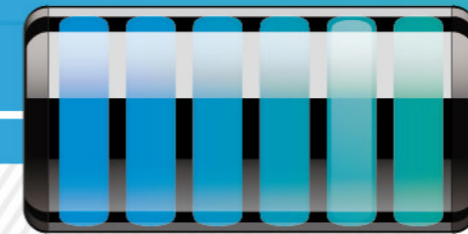
Parameters	CH1	CH2	AC Input	Frequency	47HZ-63HZ
Output Rating (0°C - 40°C)	Voltage	±15V ±9V 0-15V 0-9V	Setup Stability-30min (%of Output +Offset)	Voltage	0.01%+1mV
	Current	±3A ±5A ±3A ±5A	Setup Stability-8h (%of Output +Offset)	Current	0.01%+1mA
	Power	45W	Readback Stability-30min (%of Output +Offset)	Voltage	0.01%+1.5mV
Load Regulation ±(%of Output+Offset)	Voltage	≤0.01%+2mV	Readback Stability-8h (%of Output +Offset)	Current	0.01%+1.5mA
	Current	≤0.05%+1mA	Fuse Spec	Voltage1	5A
Line Regulation ±(%of Output+Offset)	Voltage	≤0.02%+2mV	Sense Voltage	Voltage2	2.5A
	Current	≤0.05%+1mA	Programming Response Time(Typical)		5mS
Setup Resolution	Voltage	1mV	Power Factor		0.7 Max
	Current	0.1mA	Max.Input Current		5A
	OVP	10 mV	Max.Input Apparent Power		500VA
Readback Resolution	Voltage	1mV	Storage Temperature		-10°C~70°C
	Current	5ARange	1mA	Protection Function	OVP/OCP/OTP
		5mARange	100nA	Communication Interface	
Setup Accuracy (12-month validity, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.02%+2mV	withstand voltage (output to ground)		200Vdc
	Current	≤0.05%+2mA	Working Temperature		0~40°C
	OVP	0.5V	Dimension (mm)		226mmW*88.2mmH*476.26mmD
Readback Accuracy (12-month validity, 25°C±5°C) ±(%of Output+Offset)	Voltage	≤0.02%+2mV	Weight (net weight)		9Kg
	Current	5ARange	≤0.05%+2mA		DVM
		5mARange	≤0.05%+2uA	Measuring Range	
Ripple (20Hz -20MHz)	Voltage	≤ 3mVp-p/1 mVrms	Readback Accuracy		0.02%+2mV
Setup Temperature drift coefficient (%of Output/°C+Offset)	Current	≤1mArms	Readback Resolution		1mV
	OVP	0.1%+50 mV	Readback Temperature drift coefficient (%of Input/°C+Offset)		0.02%+1mV
			Readback Stability-30min (%of Output +Offset)		0.02%+1mV
Readback Temperature drift coefficient (%of Output/°C+Offset)	Voltage	0.01%+0.2mV	Readback Stability-8 h (%of Output +Offset)		0.02%+1 mV
	Current	5ARange	0.015%+0.1mA	Input common-mode voltage	
5mARange		0.01%+2uA	Input Impedance		4.5MΩ
Rising Time(no load)	Voltage	≤500uS			
Rising Time(full load)	Voltage	≤500uS			
Falling Time(no load)	Voltage	≤5mS			
Falling Time(full load)	Voltage	≤500uS			
Transient Time	50%-100% LOAD recover to 50 mV ≤50uS				
AC Input	Voltage1	110V±10%			
	Voltage2	220V±10%			

## ITECH YOUR BEST POWER SOLUTION

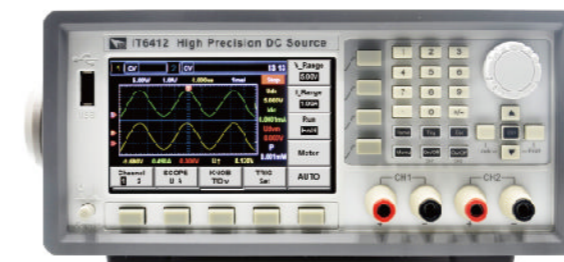
# IT6412



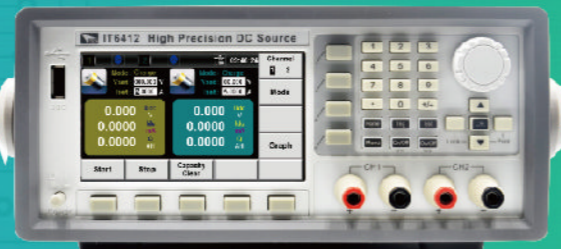
- Battery Simulating Function
- Ultrafast Transient Time
- Oscilloscope Waveform Display
- Current Readback Resolution Up To 100na



## DC POWER SOURCE DUAL-CHANNEL BIPOLAR BATTERY/CHARGER SIMULATOR



# IT6412 DC POWER SOURCE



## DUAL-CHANNEL BIPOLAR BATTERY/CHARGER SIMULATOR

IT6412 unique bipolar voltage/current output can be used as a bipolar power supply or a bipolar electronic load. The battery simulating function is especially applicable for development and high speed production testing of portable, battery-operated products, such as smartphones and wireless chipsets, bluetooth headsets, tablet computers, digital cameras, GPS receivers, RFIC power amplifiers, and intelligent wearable devices, etc. Ultrafast transient time less than 50uS and new designed speed shift mode achieves voltage/current high speed rising waveform without overshoot. Meanwhile, IT6412 has the function of waveform display, let the test be visible and simple.

### 1 Features

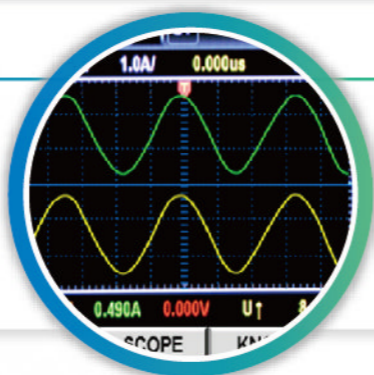
- Dual Channel, Bipolar, Dual Range output
- Accurate Battery Simulation
- Oscilloscope waveform display (DSO)
- Dual-channel display on high performance colorful LCD screen
- Ultrafast transient response < 50uS
- Ultrafast Voltage rising time up to 500uS (full load)
- Current readback resolution up to 100nA(0.1uA)
- Built-in high accuracy DVM(5 1/2 digit)
- Variable output impedance(0-1Ω)
- Applicable to portable battery-operated products test
- LED test no overshoot current
- Relay Out function achieves electrical isolation on terminals
- List function achieves voltage/current output as programmed
- Standard interfaces LAN/USB/GPIB

### 2 Dual-Channel/Bipolar/Dual-Range Output

As a dual-channel bipolar high speed linear DC source, IT6412 is available for easy-shifting dual range output with each channel. With max. ±15V voltage and ±5A current output, IT6412 can achieve testing for mobile and charger independently. IT6412 is multifunctional and with high performance, making diversified testing requests available.

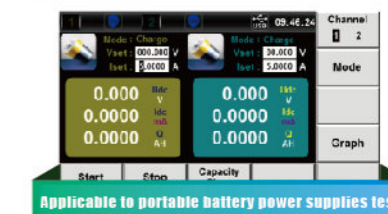
### 3 Oscilloscope Waveform Display Function

IT6412 provides waveform display function based on sample data. The voltage/current waveform is visible or invisible by your option, and can be adjusted by the knob. The graphic on the newly design colorful display can be saved, achieving easy and effective oscilloscope experience.



### 4 Battery Simulating Function

With the unique current bipolar design and 0~1Ω variable output impedance, IT6412 is applicable to types of portable battery charge-discharge tests. Simulating the battery charge-discharge features and assisting with other tests are also reliable. One equipment, diversified applications.



Applicable to portable battery power supplies test

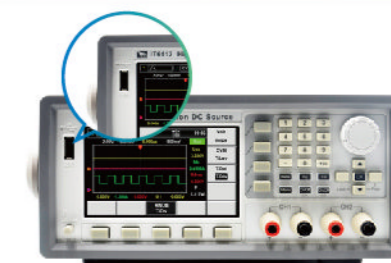
### 5 Ultrafast Transient Time, <50uS

IT6412 is with ultrafast transient ability, the transient time for recovering to 50mV is less than 50uS when 50%-100% loaded. New designed speed shift mode achieving voltage/current high speed rising waveform without overshoot, supports stable power supply, and ensures the security, especially for LED test.



### 6 Screenshots Function

IT6412 provides screenshots function to facilitate customer data analysis. Press screenshots on the front panel, the display graphic will be saved in inserted USB storage disk, easy for your reanalysis on data and waveform. The USB interface on front panel makes the data saving on time and easily.



### 7 DVM Test Function

Abundant electrical basic measuring functions are available on IT6412. High accuracy DVM is built in each channel with readback resolution up to 1mV and measure range ±20V. The measured data will be visible on specified channel screen. The changes of voltage waveform measured by DVM can be observed by oscilloscope display function.



### Application

- Portable battery-powered device test
- Battery protection board test
- Battery test
- LED test
- Power amplifier Test
- DC / DC converter test

