ITECH

Basic Product Catalog

ITECH - YOUR POWER TESTING SOLUTION

As a professional global power electronic instruments manufacturer, "Customer oriented" is the principle of all ITECH's activities. We have been devoted into research and development on "Power Electronics" for decades. By continuously understanding the testing needs of various industries, ITECH continues to provide users with competitive testing solutions. ITECH has become a fairly large scale "power electronics" test solution and equipment supplier with a wide range of product lines. ITECH is committed to product innovation, is the hope that innovative products not only meet the user's general test needs, but also allow users to have new experience through unique test technology and convenient software applications.

ITECH always focus on innovation and R&D since established, ITECH has always held the leading position in some cutting-edge testing technologies, and we do our best to launch comprehensive test solutions and high performance products. At present, ITECH owns independent R & D institutes in both China and Taiwan and maintains close technical exchanges and cooperation with internationally renowned companies for a long time. While creating high quality products and services, we are devoted into updating and expanding test solutions for new industries and products.

■ Product Support

ITECH has professional technical support engineer's team and complete technical service system to support product repair, maintenance, calibration, hardware and software upgrade, and other product support services to global customers.

■ Technical Training

ITECH customized technology training courses according to customers' actual requirements to help customers easily grasp the instrument features and operating skills.

■ Service

ITECH provides customers with professional multi-lingual technical consulting services, wherever you are, as long as a phone call or an email, technical support engineers will quickly and accurately answer your questions, and can be customized professional service solutions for you according to your demands.
TEL: +886-3-6684333
E-mail: fae@itech.sh info@itechate.com

YOUR POWER
TESTING SOLUTION
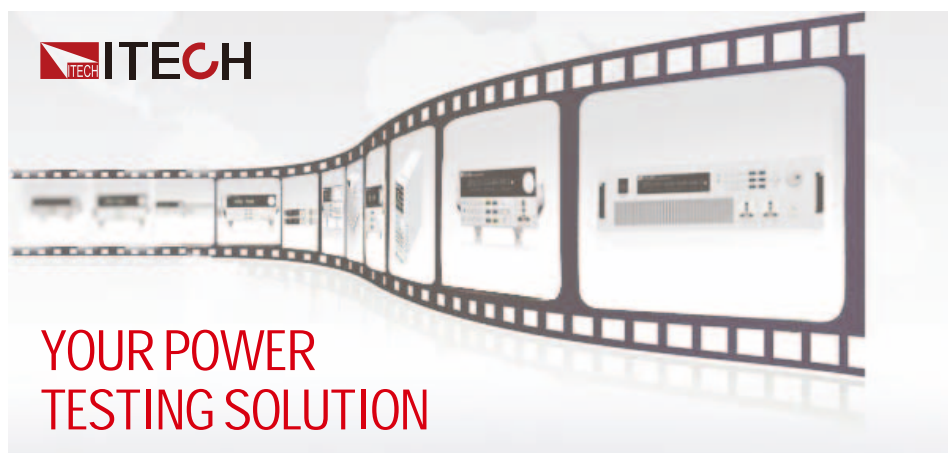
ITECH

YOUR POWER TESTING SOLUTION

ITECH has excellent agents and service locations around the world, if you need local services, please go to www.itechate.com or contact us directly.

For other languages version catalog, please contact us.
Kontaktieren Sie uns bitte fur den Katalog--in Deutsch Sprache
기타 언어버전 설명서는 한국어를--참조하세요
カタログご請求の場合、ご連絡ください
如需中文目录，请与我们联系

ITECH ELECTRONICS
Your Power Testing Solution

Products	Page	Specifications			Applications				
		Voltage Max.	Current Max.	Power Max.	Automotive Electronic	Battery	LED	Green Energy	Power Supply
Basic Products									
DC Electronic Loads									
IT8500+ Single Channel Electronic Load	P05-P10	500V	240A	3000W		✓	✓	✓	✓
IT8211 Economic Electronic Load	P11	60V	30A	150W	✓	✓	✓	✓	✓
DC Power Supplies									
IT6700 Digital Control Power Supplies	P13-P14	60V	8A	180W	✓	✓	✓	✓	✓
IT6300&IT6300A Triple Output Power Supplies	P15-P17	60V	3A	180W	✓			✓	✓
IT6500 Auto-range Power Supplies	P18-P20	80V	60A	800W	✓	✓	✓	✓	✓
IT6900A Multi-function Power Supplies	P21-P23	150V	25A	600W	✓	✓	✓	✓	✓
IT6860A & IT6870A Power Supplies	P24-P26	150V	9A	180W		✓	✓	✓	✓
IT6100B High Speed And High-accuracy Programmable DC Power Supply	P27-P28	72V	5A	150W	✓			✓	✓
AC Power Supplies									
IT7321 AC Power Supplies	P29-P33	300V	3A	300VA	✓	✓	✓	✓	✓
Power Analyzers									
IT9121E Power Meter	P34-P37	600V	20A		✓	✓	✓	✓	✓
Optional Accessories									
Optional Accessories	P38-P40								
Selection Guide									
Selection Guide	P41								

* Note: Automotive Electronic | Battery | LED | Green Energy | Power Supply

Electronic Load

Significantly upgrade the efficiency of researching, designing and production-testing.

IT8500+ Programmable DC Electronic Load

IT8500+ series has wide operating ranges of up to 500V and 240A, it is well suited for testing and evaluating a variety of DC power supplies, DC to DC converters, batteries, solar cells etc.

IT8211 Digital Control DC Electronic Load

IT8211 supports CC/CV/CR mode, which can be applied in production-line, burn-in testing, maintaining and so on.

Electronic Load

IT8500+ Programmable DC Electronic Load
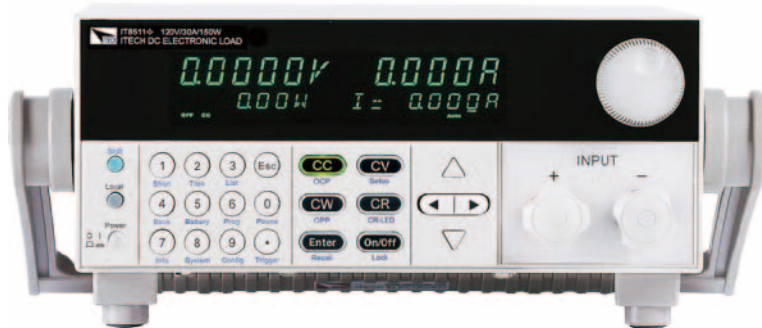
IT8500+ series single channel programmable electronic load with high density, high resolution and high accuracy supports dynamic test function, automatic test function, etc., which is suited for applications in areas such as LED driver testing, switching power testing, battery performance testing, etc. IT8500+ also provides standard SCPI protocol to build intelligent test platform that is ideal for multiple industries.

Applications

Battery test, lithium protection board test, power supply test, charger test, ATE, component test, etc.

Feature

- Four operating modes: CV, CC, CR, CP
- Battery test function, automatic test function, OPP test, OCP test function and CR-LED function
- Dynamic mode up to 10kHz
- Voltage measurement resolution up to 0.1mV / 0.1mA
- Remote sense
- Short circuit function
- Current monitoring function
- Power-off memory function
- 100 groups memory capacity
- Optional USB / RS232 / RS485 interface

*IT8514B+, IT8514C+, and IT8516C+ are built-in RS232 and USB interface.

Optional interface	
IT-E121	RS232 communication cable
IT-E122	USB communication cable

Automatic Test Function

IT8500+ supports two automatic test editing modes. One is special automatic test editing mode that can save up to 10 groups of test files, and the other is compatible with the IT8500 automatic test editing mode that can save up to 50 groups of test files, both of which can be called and tested at any time. Test operation is simple, the button can be completely locked to prevent accidental touch on the keyboard from affecting normal testing.

Model	Voltage	Current	Power	Size
IT8511A+	150V	30A	150W	1/2 2U
IT8511B+	500V	10A	150W	1/2 2U
IT8512A+	150V	30A	300W	1/2 2U
IT8512B+	500V	15A	300W	1/2 2U
IT8512C+	120V	60A	300W	1/2 2U
IT8512H+	800V	5A	300W	1/2 2U
IT8513A+	150V	60A	400W	1/2 2U
IT8513C+	120V	120A	600W	1/2 2U
IT8514B+	500V	60A	1500W	2U
IT8514C+	120V	240A	1500W	2U
IT8516C+	120V	240A	3000W	4U

Constant Current（CC）

In CC mode, the electronic load will sink a constant current regardless of the changes of input voltage.

CC mode
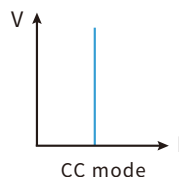
Constant Voltage（CV）

In CV mode, the electronic load will attempt to sink enough current to control the source voltage to the programmed value.

CV mode
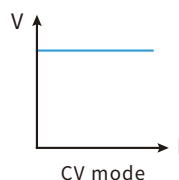
Constant Resistance（CR）

In CR mode, the module will sink a current linearly proportional to the input voltage in accordance with the programmed resistance.

CR mode
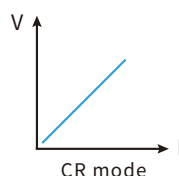
Constant Power（CW）

In CP mode, the electronic load will dissipate power in accordance with the programmed value.
If input voltage increase, input current will decrease.

CW mode
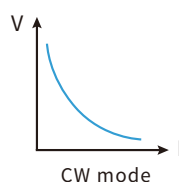
Transient Mode

Transient operation enables the module to periodically switch between two load levels, as might be required for testing power supplies. Transient operation can be turned on and off from the front panel (shift + numeric key"2"). Before you turn on the operation, you should set the parameters associated with the transient operation. The parameters include: A level, B level,frequency, duty cycle and transient testing modes. There are three different transient testing modes: continuous, pulse, and toggle.

● Continuous Mode

In continuous mode, the electronic load generates a repetitive pulse stream that toggles between two load levels. Load could switch the state between two value settings, A/B.

Continuous Transient Operation
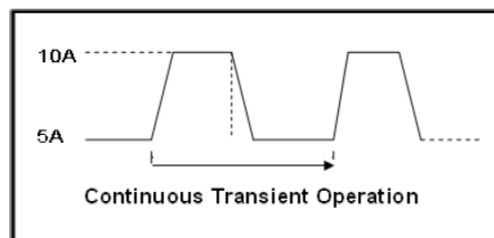
● Pulse Mode

In pulse mode, the electronic load generates a transient pulse of programmable width when pulse transient operation is in effect. The load will automatically switch to A level after maintaining A width time. Then it will switch to B level. The load will not switch to A level again until the instrument receives the pulse signal.

Pulsed Transient Operation
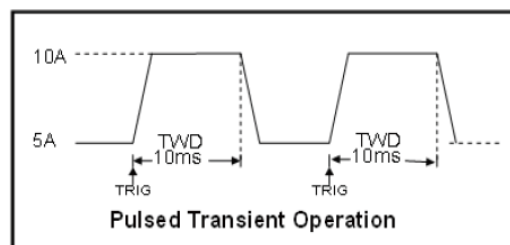
● Toggle Mode

In toggle mode, the electronic load will switch between A level and B level when receiving a trigger signal after the transient operation is enabled. The following picture shows the current waveform in toggle transient operation.

Toggled Transient Operation

Electronic Load
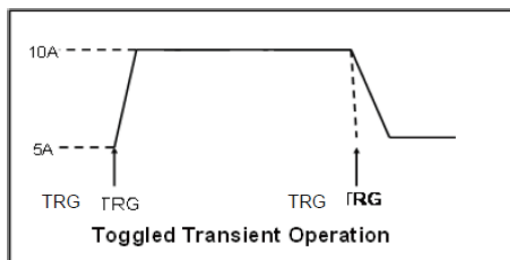
List Mode

List mode allows you to generate a complex current sequence. Moreover, the mode change can be synchronized with an internal or external signal, to accomplish dynamic and precise test which can save cost for users. Users can edit step value, pulse width and slope sequence and meet a complex test request. A list file includes following parameters: file name step counts (range 2-84), time width of single step (0.00005s-3600s), step value and slope. The edited list file can be recalled easily. The DC load provides 7 nonvolatile registers to save list files setting for recall later. In the list mode, the load starts to run the list file once receiving a trigger signal, continue to run until end of the operation or receiving another trigger.

List sequence
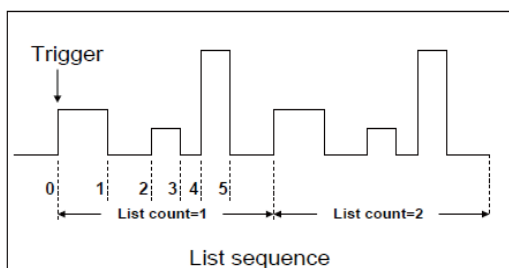
Battery Mode

Battery discharge test of IT8500+ series can be achieved under CC mode. There are three cut-off conditions for IT8500+ include cut-off voltage, cut-off capacity and cut-off time, when any of the three conditions are met, discharge test will be stopped, the load will be automatically switched to OFF. Moreover, the battery voltage, discharge time and discharged capacity can be observed during the test.
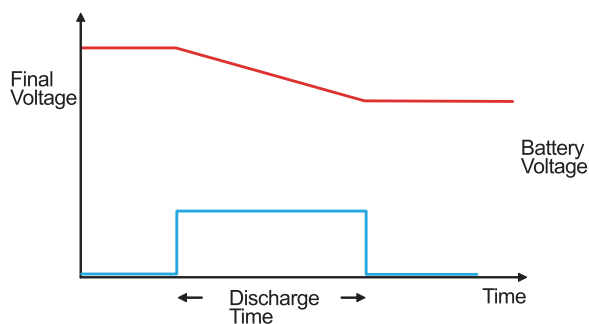
Battery discharge function

Remote Sense

When working in CC, CV, CP and CR mode, if the electronic load consumes a very large current, it will cause a voltage drop in the leads between the connected device and terminals of the electronic load. In order to ensure testing accuracy, the electronic load provides a pair of remote sensing terminals in the rear panel where users can sense the output terminal voltage of the connected device. Users should set the electronic load in REMOTE SENSE mode before using this function. By eliminating the effect of the voltage drop in the load leads, remote sensing provides greater accuracy by allowing the electronic load to regulate directly at the source's output terminals.
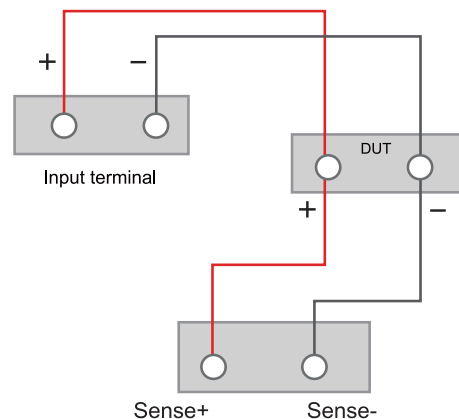
IT8500+ Specifications

		IT8511A+		IT8511B+		IT8512A+	
Rated (0~40 ℃)	Voltage	0~150V		0~500V		0~150V	
	Current	0~3A	0~30A	0~3A	0~10A	0~3A	0~30A
	Power	150W		150W		300W	
	MOV	0.25V at 3A	3V at 30A	1.2V at 3A	4V at 10A	0.14V at 3A	1.4V at 30A
CV mode	Range	0~18V	0~150V	0.1~50V	0.1~500V	0.1~18V	0.1~150V
	Resolution	1mV	10mV	1mV	10mV	1mV	10mV
	Accuracy	±(0.05%+0.025%FS)	±(0.05%+0.025%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)
CC mode	Range	0~3A	0~30A	0~3A	0~10A	0~3A	0~30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05%+0.05%FS)		±(0.05%+0.05%FS)		±(0.05%+0.05%FS)	
CR mode	Range	0.1Ω~10Ω	10Ω~7.5KΩ	0.5Ω~10Ω	10Ω~7.5KΩ	0.05Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit		16bit		16bit	
	Accuracy	0.01%+0.08S *2	0.01%+0.0008S	0.01%+0.08S *2	0.01%+0.0008S	0.01%+0.08S *2	0.01%+0.0008S
CP mode	Range	150W		150W		300W	
	Resolution	10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.2%FS)		±(0.1%+0.1%FS)	
Dynamic mode	T1&T2	20uS~3600S /Res:1 uS		20uS~3600S /Res:1 uS		20uS~3600S /Res:1 uS	
	Accuracy	2uS±100ppm		2uS±100ppm		2uS±100ppm	
Min response time	Up/down slope	0.0001~0.12A/uS≒10uS	0.001~0.6 A/uS≒10uS	0.0001~0.2A/uS≒10uS	0.001~0.8A/uS ≒10uS	0.0001~0.2A/uS	0.001~1.5A/uS
Measuring range							
Readback Voltage	Range	0~18V	0~150V	0~50V	0~500V	0~18V	0~150V
	Resolution	0.1 mV	1mV	1 mV	10 mV	0.1 mV	1 mV
	Accuracy	±(0.025%+0.025%FS)		±(0.025%+0.025%FS)		±(0.025%+0.025%FS)	
Readback Current	Range	0~3A	0~30A	0~3A	0~10A	0~3A	0~30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05%+0.05%FS)		±(0.05%+0.05%FS)		±(0.05%+0.05%FS)	
Readback Power	Range	150W		150W		300W	
	Resolution	10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.2%FS)		±(0.1%+0.1%FS)	
Protected range							
Over power protection		≒160W		≒160W		≒320W	
Over current protection		≒3.3A	≒33A	≒3.3A	≒11A	≒3.3A	≒33A
Over voltage protection		≒160V		≒530V		≒160V	
Over temperature protection		≒85℃		≒85℃		≒85℃	
Specification							
Short circuit	CC	≒3.3/3A	≒33/30A	≒3.3/3A	≒11/10A	≒3.3/3A	≒33/30A
	CV	≒0V		≒0V		≒0V	
	CR	≒80mΩ		≒400mΩ		≒180mΩ	
Input terminal impedance		≒300KΩ		≒1MΩ		≒300KΩ	
Size(W*H*D)		214.5mm*88.2mm*354.6mm		214.5mm*88.2mm*354.6mm		214.5mm*88.2mm*354.6mm	

*This information is subject to change without notice

IT8511A+ / IT8512A+/ IT8511B+ / IT8512B+ / IT8512C+ / IT8512H+ / IT8513A+/ IT8513C+
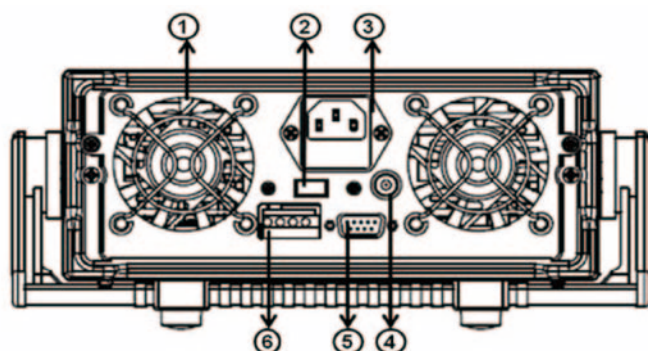
① Air vents

② Voltage switch （110V/220V）

③ AC line input

④ Current monitoring Terminal

⑤ 9-Pin serial port interface connector

⑥ Trigger and remote sensing terminal block

IT8500+ Programmable DC Electronic Load

ITECH ELECTRONICS
Your Power Testing Solution

IT8500+ Specifications

		IT8512B+		IT8512H+	
Rated (0~40 ℃)	Voltage	0~500V		0~800V	
	Current	0~3A	0~15A	0~1A	0~5A
	Power	300W		300W	
	MOV	0.6V/3A	3V/15A	1.4V at 1A	7V at 5A
CV mode	Range	0.1~50V	0.1~500V	0.1~80V	0.1~800V
	Resolution	1mV	10mV	1mV	10mV
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
CC mode	Range	0~3A	0~15A	0~1A	0~5A
	Resolution	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.1%FS)	±(0.05%+0.05%FS)
CR mode	Range	0.3Ω~10Ω	10Ω~7.5KΩ	2Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit		16bit	
	Accuracy	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08S*2	0.01%+0.0008S
CP mode	Range	300W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.2%FS)		0.2%+0.2%FS	
Dynamic mode	T1&T2	20uS~3600S /Res:1 uS		20uS~3600S /Res:1 uS	
	Accuracy	2uS±100ppm		2uS±100ppm	
Min response time	Up/down slope	0.0001~0.2A/uS ≒10uS	0.001~0.8A/uS ≒10uS	0.0001~0.04A/uS ≒20uS	0.001~0.2A/uS ≒20uS
Measuring range					
Readback Voltage	Range	0~50V	0~500V	0~80V	0~800V
	Resolution	1 mV	10 mV	1 mV	10 mV
	Accuracy	±(0.025%+0.025%FS)		±(0.025%+0.025%FS)	
Readback Current	Range	0~3A	0~15A	0~1A	0~5A
	Resolution	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.05%+0.05%FS)		±(0.05%+0.05%FS)	
Readback Power	Range	300W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.2%FS)		±(0.2%+0.2%FS)	
Protected range					
Over power protection		≒320W		≒320W	
Over current protection		≒3.3A	≒16A	≒1.1A	≒5.5A
Over voltage protection		≒530V		≒850V	
Over temperature protection		≒85℃		≒85℃	
Specification					
Short circuit	CC	≒3.3/3A	≒16/15A	≒1.1/1A	≒5.5/5A
	CV	≒0V		≒0V	
	CR	≒180mΩ		≒1.4Ω	
Input terminal impedance		1MΩ		2MΩ	
Size(W*H*D)		214.5mmW*354.6mmD*88.2mmH		214.5mmW*354.6mmD*88.2mmH	

		IT8513A+		IT8513C+	
Rated (0~40 ℃)	Voltage	0~150V		0~120V	
	Current	0~6A	0~60A	0~12A	0~120A
	Power	400W		600W	
	MOV	0.25V at 6A	2.5V at 60A	0.2V at 12A	2V at 120A
CV mode	Range	0.1~18V	0.1~150V	0.1~18V	0.1~120V
	Resolution	1mV	10mV	1mV	10mV
	Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02%FS	±(0.05%+0.025%FS)
CC mode	Range	0~6A	0~60A	0~12A	0~120A
	Resolution	0.1mA	1mA	1mA	10mA
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.1%FS)
CR mode	Range	0.1Ω~10Ω	10Ω~7.5KΩ	0.05Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit		16bit	
	Accuracy	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08S *2	0.01%+0.0008S
CP mode	Range	400W		600W	
	Resolution	10mW		10mW	
	Accuracy	±(0.2%+0.2%FS)		±(0.2%+0.2%FS)	
Dynamic mode	T1&T2	100uS~3600S /Res:1 uS		100uS~3600S /Res:1 uS	
	Accuracy	10uS+100ppm		10uS±100ppm	
Min response time	Up/down slope	0.001~0.15A/uS	0.01~1 A/uS	0.001~0.2A/uS ≒60uS	0.01~1.6A/uS ≒60uS
Measuring range					
Readback Voltage	Range	0~18V	0~150V	0~18V	0~120V
	Resolution	0.1 mV	1mV	0.1 mV	1mV
	Accuracy	±(0.025%+0.025%FS)		±(0.025%+0.025%FS)	
Readback Current	Range	0~6A	0~60A	0~12A	0~120A
	Resolution	0.1mA	1mA	1mA	10mA
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.1%FS)
Readback Power	Range	400W		600W	
	Resolution	10mW		10mW	
	Accuracy	±(0.2%+0.2%FS)		±(0.2%+0.2%FS)	
Protected range					
Over power protection		≒420W		≒620W	
Over current protection		≒6.6A	≒66A	≒13A	≒130A
Over voltage protection		≒165V		≒125V	
Over temperature protection		≒85℃		≒95℃	
Specification					
Short circuit	CC	≒6.6/6A	≒66/60A	≒13/12A	≒130/120A
	CV	≒0V		≒0V	
	CR	≒30mΩ		≒15mΩ	
Input terminal impedance		≒280KΩ		150KΩ	
Size(W*H*D)		214.5mm*88.2mm*453.5mm		214.5mm*88.2mm*453.5mm	

*This information is subject to change without notice

IT8500+ Specifications

		IT8514C+		IT8514B+		IT8516C+	
Rated (0~40 °C)	Voltage	0~120V		0~500V		0~120V	
	Current	0~24A	0~240A	0~6A	0~60A	0~24A	0~240A
	Power	1500W		1500 W		3000W	
	MOV	0.25V at 24A	2.5V at 240A	0.5V at 6A	3V at 60A	0.15V at 24A	1.5V at 240A
CV mode	Range	0~18V	0.1~120V	0.1~50V	0.1~500V	0.1~18V	0.1~120V
	Resolution	1mV	10mV	1mV	10mV	1mV	10mV
	Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)
CC mode	Range	0~24A	0~240A	0~6A	0~60A	0~24A	0~240A
	Resolution	1mA	10mA	1mA	10mA	1mA	10mA
	Accuracy	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)
CR mode	Range	0.05Ω~10Ω	10Ω~7.5KΩ	0.05Ω~10Ω	10Ω~7.5KΩ	0.05Ω~10Ω	10Ω~7.5KΩ
	Resolution	16bit		16bit		16bit	
	Accuracy	0.02%+0.08S	0.01%+0.0008S	0.02%+0.08S[*1]	0.02%+0.0008S	0.02%+0.08S[*1]	0.02%+0.0008S
CP mode	Range	1500W		1500W		3000W	
	Resolution	10mW		10mW		10mW	
	Accuracy	±(0.2%+0.2%FS)		±(0.2%+0.2%FS)		±(0.2%+0.2%FS)	
Dynamic mode	T1&T2	100uS~3600S /Res:1uS		100uS~3600S /Res:1 uS		120uS~3600S /Res:1 uS	
	Accuracy	10uS±100ppm		10uS±100ppm		10uS±100ppm	
Min response time	Up/down slope	0.001~0.3A/uS	0.01~3.2A/uS	0.001~0.15A/uS≒60uS	0.01~0.8A/uS≒60uS	0.001~0.25A/uS≒70uS	0.01~2.4A/uS≒70uS
Measuring range							
Readback Voltage	Range	0~18V	0~120V	0~50V	0~500V	0~18V	0~120V
	Resolution	0.1 mV	1mV	0.1 mV	1mV	0.1 mV	1mV
	Accuracy	±(0.025%+0.025%FS)		±(0.025%+0.025%FS)		±(0.025%+0.025%FS)	
Readback Current	Range	0~24A	0~240A	0~6A	0~60A	0~24A	0~240A
	Resolution	1mA	10mA	1mA	10mA	1mA	10mA
	Accuracy	±(0.05%+0.05%FS)		±(0.05%+0.05%FS)		±(0.1%+0.1%FS)	
Readback Power	Range	1500W		1500W		3000W	
	Resolution	10mW		10mW		10mW	
	Accuracy	±(0.2%+0.2%FS)		±(0.2%+0.2%FS)		±(0.2%+0.2%FS)	
Protected range							
Over power protection		≒1550W		≒1550W		≒3050W	
Over current protection		≒26.7A	≒267A	≒6.7A	≒67A	≒26A	≒260A
Over voltage protection		≒125V		≒530V		≒125V	
Over temperature protection		≒85°C				≒85°C	
Specification							
Short circuit	CC	≒26.7/24A	≒267/240A	≒6.7/6A	≒67/60A	≒26/24A	≒260/240A
	CV	≒0V		≒0V		≒0V	
	CR	≒8mΩ		≒50mΩ		≒6mΩ	
Input terminal impedance		300KΩ		1MΩ		300KΩ	
Size(W*H*D)		436.5mm*88.2mm*463.5mm		436.5mm*88.2mm*463.5mm		436.5mm*176mm*463.5mm	

*1 Resistance readback range: (1/(1/R+(1/R)*0.01%+0.08),1/(1/R-(1/R)*0.01%-0.08))

IT8514B+/14C+/16C+: (1/(1/R+(1/R)*0.02%+0.08),1/(1/R-(1/R)*0.02%-0.08))

*This information is subject to change without notice

IT8514B+/IT8514C+ Dimension figure

unit: mm

Electronic Load

IT8200 Digital Control DC Electronic Load

IT8200 series economical programmable electronic loads, with the highest cost/performance ratio and small size, they are widely used in production testing lines and maintenance lines etc. Resolution 1mV/1mA ensures the accurate measurement result. IT8200 series has programmable performance, and can quickly recall 4 * 40 group memory data, panel function keys and display interface are clear, provide customers with simple operation program, easy and fast to complete a variety of complex tests. The series has CV, CC and CR mode, and short circuit test function, it is the cost-effective electronic load products.

Applications

Laboratory, aging, education, production line inspection, etc.

Feature

- Digital controlling electronic load
- LED display
- With fast rotary encoder input
- 19-inch standard cabinet can be installed
- Three operating modes: CV / CC / CR
- 4 * 40 group memory capacity can be quickly recalled
- Switch high and low current
- The smallest size among similar products
- Switch between high and low current 3A/30A

IT8211 Specifications

		IT8211	
Input Rating	Power	150W	
	Voltage	60V	
	Current	1mA-30A	
CC Mode	Range	0-3A	0-30A
	Resolution	1mA	10mA
	Accuracy*1	0.1%+0.1%FS	0.1%+0.15%FS
CV Mode	Range	-	0.1-60V
	Resolution	-	10mV
	Accuracy	-	0.05%+0.1%FS
CR Mode	Range	<100Ω	<4KΩ
	Resolution	0.01Ω	1Ω
	Accuracy	1%+0.8%FS	1%+0.8%FS
V Measurement	Voltage	0-10V	0-60V
	Resolution	1mV	10mV
	Accuracy	0.05%+0.1%FS	0.05%+0.1%FS
I Measurement	Current	0-3A	0-30A
	Resolution	1mA	10mA
	Accuracy	0.1%+0.1%FS	0.1%+0.15%FS
V Measurement	Watt	0-100W	100-150W
	Resolution	10mW	100mW
	Accuracy	1%+0.1%FS	1%+0.1%FS
Short Circuit	Current	≒30A	
	Voltage	0V	
	Resistance	≒80mΩ	
Temperature	Operating	0-40℃	
	Storage	-10℃-60℃	
Dimention	W*H*D	88mm*175mm*282mm	
Weight	Kg	2.6	

*This information is subject to change without notice

Voltage setup indicator
CC mode indicator
Recall indicator
CV mode indicator
Short indicator
CR mode indicator
Selector indicator
Shift indicator
Input off indicator
Current setup indicator

Voltage value
Stepping value B+memory B
Stepping value A+memory A
Stepping value C+memory C
Stepping value D+memory D
Current value

Memory save (shift)
Left arrow +shorcut A
Function setup(shift)
Enter+shortcut C

Short on/off

Air flow input

Main power on/off

Recall(shift)
Right arrow+memory B
3/30A selector (shift)
Rotary encoder
Mode selector+memor
Shift button

Input
Input

AC/DC Power Supply

Provide you with the most reliable and accurate power supply.

IT6700 DC Power Supply

With widest voltage and current range, IT6700 digital DC power supplies are applied in many fields, reduce your repeat investment.

IT6300 & IT6300A Triple Output Programmable DC Power Supply

The programmable 3 channel power supply is provided with 1mV, 1mA high resolution and high accuracy. High-definition VFD display can display and set the voltage of 3 channels at one time without switching. It greatly simplifies the complex operation of the traditional 3 channel power supply.

IT6500 Auto-range Programmable DC Power Supply

IT6500 series programmable power supply with 1mV, 1mA high resolution and accuracy. IT6500 series products can function in CV or CC mode, it's the best solution for your laboratory tests, production tests and other applications with small size of 1U.

IT6900A Wide-range Programmable DC Power Supply

IT6900A series wide range programmable power supply have built-in standard RS232, USB, GPIB and analog interface, support SCPI protocol, facilitate remote control, industrial PLC control and the formation of intelligent test platform.

IT6860A & IT6870A Dual-range DC Power Supply

The power supply is a dual-range output power supply with high resolution of 1mV, 0.1mA, which can test the products with different power range. You can adjust the voltage/current stepping by pressing the left and right keys to move the cursor. It supports output timer function and programs by the front panel, which will bring great convenience. It is built-in RS232 and USB communication interfaces, which can make the communication much faster.

IT6100B High Speed and high-accuracy Programmable DC Power Supply

IT6120B (86W-150W) series has fast voltage rising speed and high accuracy. Voltage range is 20V-72V, current range is 1.2A-5A, voltage rising speed (<20ms), high accuracy and resolution is 0.1mV/0.01mA. Also configure with standard RS232/USB/GPIB interface to realize fast communication speed. List configure can be operated on front panel. This series offer flexible solution to general laboratory and workshop requirement.

IT7321 Programmable AC Power Supply

The power supply is single phase programmable AC power supply. This series power supply output kinds of normal and abnormal AC input to measure essential parameters of products. Built-in LAN, USB, RS232 communication interface makes your test efficient.

IT6700 DC Power Supply

Power Supply

With widest voltage and current range, IT6700 digital DC power supplies are applied in many fields. Take IT6720 for example, with max power 100W and output adjustable in 60V/5A, auto control voltage/current slew rate, power rate up to three times rapid than other similar products, a unit can replace three models (60V*1.6A/ 32V*3A/ 20V*5A), reduce duplication of investment.

Applications

Laboratory, aging, school, production line inspection, etc.

Feature

- Completely digital-control

- 10mV/1mA high accuracy and resolution

- Lower noise and ripple

- CV/CC modes

- Minimum size to save space

- Bright and easy to read display (VFD)

- OCP/OVP/OTP protection

- The most economical high performance digital-control power supply

- Full scale 60V/5A,resolution 10mV/1mA, no need to switch

- Switch control for output

IT6720 output curve

IT6720 60V/5A/100W
Auto Range DC Power Supply

Voltage setup indicator
CC mode indicator
CV mode indicator
OCP indicator
OVP indicator
Memory mode indicator
Keyboard Lock indicator
Shift indicator
Output OFF indicator

Voltage value
Stepping value B+memory B
Stepping value A+memory A
Stepping value C+memory C
Stepping value D+memory D
Current value

Memory save (shift)
Left arrow +Memory A Button
Keyboard(shift)
Enter+Memory C Button
Output ON/OFF Button
Air flow input
Main Power ON/OFF

Save
Prog
Lock
Setup
Display
Shift
On/Off
Power

Right arrow +Memory B Button
Function setup(shift)
Rotary Encoder
Voltage/Current selector+memory D Button
Setup Display(shift)
Shift Button

Output +
Output -
Ground

IT6720 60V/5A/100W
IT6721 60V/8A/180W

IT-E152 19'' Rack Mount Diagram

Power Supply

IT6700 Specifications

		IT6720	IT6721
Output Rating	Voltage	0-60V	0-60V
	Current	0-5A	0-8A
	Power	100W	180W
Load Regulation	Voltage	<0.01%+3mV	<0.01%+5mV
	Current	<0.01%+3mA	<0.01%+5mA
Line Regulation	Voltage	<0.01%+3mV	<0.01%+5mV
	Current	<0.1%+3mA	<0.1%+5mA
Programming Accuracy	Voltage	<0.05%+10mV	<0.05%+10mV
	Current	<0.2%+2mA	<0.3%+5mA
Readback Accuracy	Voltage	<0.05%+10mV	<0.05%+10mV
	Current	<0.2%+2mA	<0.3%+5mA
Ripple	Voltage	2mVrms	5mVrms
	Current	5mArms	8mArms
Dimension	W*H*D	88*175*282	88*175*282
Weight	Net	2.5kg	2.5kg

*This information is subject to change without notice.

IT6300A Triple Channels DC Power Supply

Power Supply

Applications

School laboratory, production test, maintenance inspection, etc.

IT6300A series is high-performance programmable triple channels DC power supply, each output voltage and current can be set from 0 to maximum rated output, supports series connection, parallel connection and track functions of channel, which offer multi-purpose solutions for customers test. IT6300A series is with high resolution 1mV / 1mA and remote sense function, which make the test more accurate. With built-in standard USB / RS232 communication interface, IT6300A series greatly enhance the communication speed, and customers also can adjust the digital step value by using the cursor to facilitate the operation.

Feature

- Triple output voltage, all are adjustable

- Optional serial/ parallel/ track mode

- Displays voltage and current settings for all three channels simultaneously

- Small size of 1/2 2U

- VFD display

- Function keys with LED light

- Adjust the digital step value via cursor

- Output switch control

- High accuracy, high resolution and high stability

- Remote measurement function, compensation online pressure drop

- Comprehensive protection function

- Intelligent fan control, reduce noise

- Built-in RS232/USB communication interface

Track mode

CH1 and CH2, CH2 and CH3, or all three channels to be set as track mode, if any one channel parameter changed, the corresponding parameters of the other channels will also change in direct proportion.
For example, set up voltage and current of CH1 and CH2 to be CH1:4V, 1A; CH2:8V, 2A. Set CH1 and CH2 in track mode, in output off and Meter state, VFD is shown below:
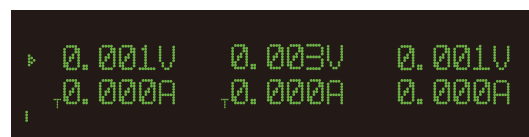
*In the setting state, if voltage of CH1 set to be 2V, the voltages of CH2 will automatically synchronize to be 4V (proportionally).

Model	Specification	
IT6322A	30V/3A/90W*2CH	
	5V/3A/15W*1CH	
IT6332A	30V/6A/180W*2CH	
	5V/3A/15W*1CH	
IT6333A	60V/3A/180W*2CH	
	5V/3A/15W*1CH	

Power Supply
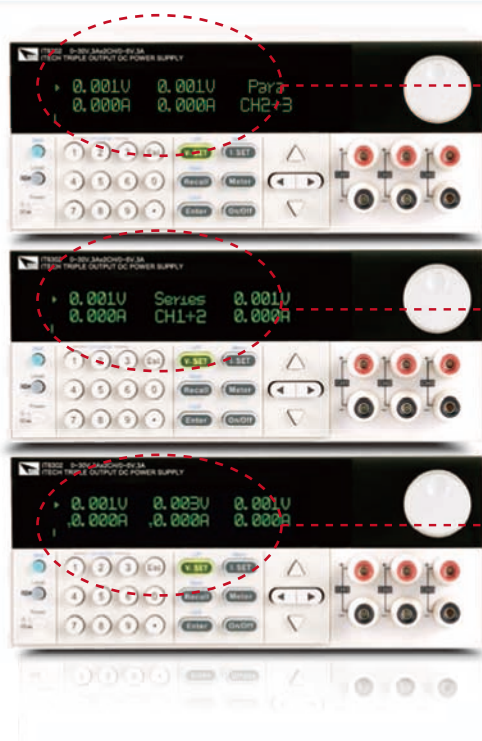
Serial operation

Parallel operation

track mode

IT6300A Specifications

		IT6322A			IT6332A			IT6333A		
		CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Rated output*1	Voltage	0~30V	0~30V	0~5V	0~30V	0~30V	0~5V	0-60V	0~60V	0~5V
	Current	0~3A	0~3A	0~3A	0~6A	0~6A	0~3A	0~3A	0~3A	0~3A
	Power	90W	90W	15W	180W	180W	15W	180W	180W	15W
Load regulation*2	Voltage	≤0.01%+3mV			≤0.01%+3mV			≤0.01%+3mV		
	Current	≤0.1%+3mA			≤0.01%+3mA			≤0.01%+3mA		
Power regulation*2	Voltage	≤0.01%+3mV			≤0.01%+3mV			≤0.01%+3mV		
	Current	≤0.1%+3mA			≤0.01%+3mA			≤0.01%+3mA		
Setting resolution	Voltage	1mV			1mV			1mV		
	Current	1mA			1mA			1mA		
Readback resolution	Voltage	1mV			1mV			1mV		
	Current	1mA			1mA			1mA		
Setpoint accuracy*3	Voltage	≤0.03%+10mV			≤0.03%+10mV			≤0.03%+10mV		
	Current	≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA	≤0.1%+5mA		
Readback value accuracy*3	Voltage	≤0.03%+10mV			≤0.03%+10mV			≤0.03%+10mV		
	Current	≤0.1%+5mA			≤0.1%+8mA		≤0.1%+5mA	≤0.1%+5mA		
Ripple and noise	Voltage	≤1mVrms/3mVp-p			≤1mVrms/4mVp-p		≤1mVrms/3mVp-p	≤1mVrms/4mVp-p		≤1mVrms/3mVp-p
	Current	≤3mArms			≤5mArms		≤4mArms	≤4mArms		
Serial operation		Serial error								
Parallel operation Setpoint accuracy	Voltage	≤0.02%+5mV			≤0.02%+5mV			≤0.02%+10mV		
	Current	≤0.1%+20mA			≤0.1%+30mA			≤0.1%+30mA		
Size		214.5mm*88.2mm*354.6mm			214.5mm*88.2mm*453.1mm			214.5mm*88.2mm*453.1mm		
weight		7.7Kg			15Kg			15Kg		

*1：(0℃ - 40℃)　　　*2：(%of output+offset)　　　*3：(12-month validity)(25 °C ± 5 °C) (%of output+offset)

*This information is subject to change without notice

ITECH ELECTRONICS
Your Power Testing Solution

IT6302 Triple Channels DC Power Supply

Optional Accessories

IT-E121	RS232 communication cable
IT-E122	USB communication cable

Feature

- Independent, fully programmable and electrically isolated outputs
- Display & adjust voltage and current settings for all 3 channels
- Flexible output configuration: connect CH1 or CH2 channels in parallel
- Excellent stability and regulation
- LVP (low voltage protection) and OTP (over temperature protection)
- Output on/off control
- 27 memory locations for instrument state storage & recall
- Closed case calibration

IT6302 Specifications

		IT6302		
		CH1	CH2	CH3
Rated output*1	Voltage	0~30V	0~30V	0~5V
	Current	0~3A	0~3A	0~3A
	Power	90W	90W	15W
Load regulation*2	Voltage	≤0.01%+4mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.2%+3mA	≤0.2%+3mA	≤0.2%+3mA
Power regulation*2	Voltage	≤0.01%+4mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.2%+3mA	≤0.2%+3mA	≤0.2%+3mA
Setting resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Readback resolution	Voltage	10mV	10mV	10mV
	Current	1mA	1mA	1mA
Setpoint accuracy*3	Voltage	≤0.06%+20mV	≤0.06%+20mV	≤0.06%+20mV
	Current	≤0.2%+10mA	≤0.2%+10mA	≤0.2%+10mA
Readback value accuracy*3	Voltage	≤0.06%+20mV	≤0.06%+20mV	≤0.06%+20mV
	Current	≤0.2%+10mA	≤0.2%+10mA	≤0.2%+10mA
Ripple and noise	Voltage	≤5mVp-p/1mVrms	≤5mVp-p/1mVrms	≤5mVp-p/1mVrms
	Current	≤6mArms	≤6mArms	≤6mArms
Serial operation	Serial error	≤0.2%+15mA	≤0.2%+15mA	≤0.2%+15mA
Parallel operation	Voltage	≤0.2%+30mV	≤0.2%+30mV	≤0.2%+30mV
Setpoint accuracy	Current	≤0.2%+25mA	≤0.2%+25mA	≤0.2%+25mA
Size		214.5mm*88.2mm*354.6mm	214.5mm*88.2mm*354.6mm	214.5mm*88.2mm*354.6mm
weight		7.1Kg	7.1Kg	7.1Kg

*1：(0℃ - 40℃)   *2：(%of output+offset)   *3：(12-month validity)(25 ℃ ± 5 ℃) (%of output+offset)

*This information is subject to change without notice

IT6500 Wide-range High-power DC Power Supply

IT6500 series power supply is single output high-powered and programmable DC power supply which supports CC mode and CV mode. The 800W model has 1U ultrathin body with 1mV/1mA resolution. IT6500 provide you with multiple proposals to meet your test demands.

Applications

Automotive Electronics、Aerospace and Aviation、DC Motor Test、Battery R&D Test、High Power Application、Lithium Battery Module Test、Electronic Components Production

Feature

- VFD display
- Achieve max. voltage/current within rated power
- High resolution of 1mV, 1mA
- Low noise and ripple
- Compact, high density, rack mount size
- Built-in USB/ RS232/ RS485/ GPIB communication interface
- Master-Slave mode for parallel and series operation
- With standard SCPI communication protocol
- Remote sensing function
- Intelligent cooling fan to save energy and reduce noise

Model	Voltage	Current	Power
IT6502D	80V	60A	800W

Adjustable Rising and Falling Time Setting

The rising and falling time of IT6500 series power supplies is adjustable. Users can set the transient time of which from one voltage to another voltage. The fastest adjustable time for IT6500 series power supplies can up to 1ms, which can meet most testing requirements.

Models	List Function	Automotive electronics waveform simulation	Master-Slave	External Analog Interfaces	Communication Interfaces
IT6502D	✗	✗	✓	✓	RS232/RS485/USB/GPIB
IT6512	✓	✓	✓	✓	RS232/RS485/USB/GPIB
IT6512A	✗	✗	✓	✓	RS232/RS485/USB/GPIB
IT6513	✗	✗	✓	✓	RS232/RS485/USB/GPIB
IT6513A	✓	✓	✓	✓	RS232/RS485/USB/GPIB

Power Supply

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Auto Range Function

IT6500 series power supply has applied Auto-range technology. It allows any combination of the rated voltage and current up to the maximum output power of 1200W. For example, the max current output at 20V is 60A.
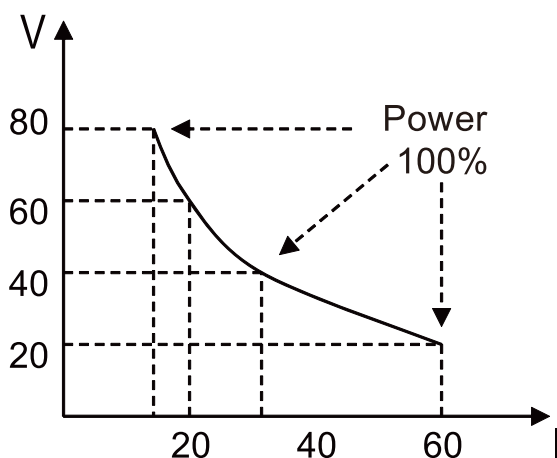
IT6512 I-V curve graph

List Mode

Part of IT6500 series models support list function. In list mode, users can program and modify any testing procedure with multiple steps and different duration according to their different testing requirements. After the operation list programming, the power supply will start to work and operate in order once it receives trigger signal until it finished the entire list or receiving trigger signal again.
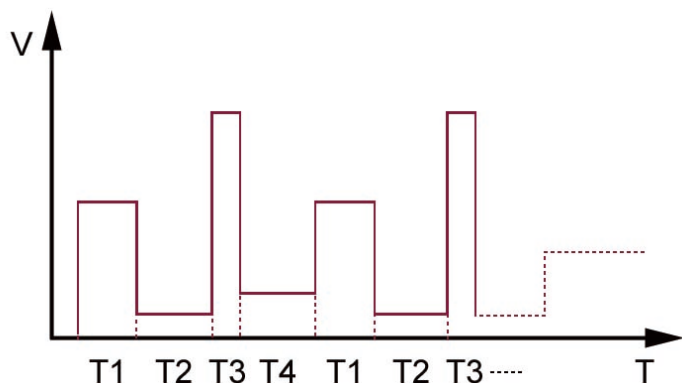
Master-Slave Operation
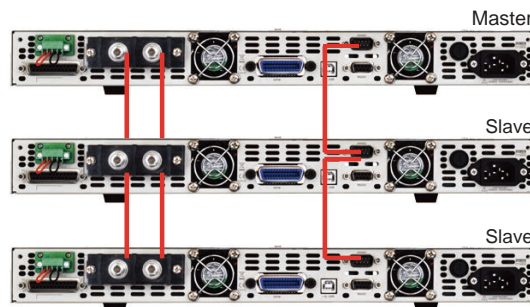
Master

Slave

Slave

Above is the graph for Master-Slave operation

IT6500 series power supplies support Master-Slave parallel connection to enlarge the current and power range. Here is a schematic illustration of Master-Slave connection mode. Output terminals connect in parallel, the RS485 interfaces of master and slave connect through directly line. When connecting several units in parallel, user could specify one unit as a Master and the others as slaves. Also they can connect with a computer through any built-in interface, such as GPIB, USB, RS232 or RS485. All setting operations can be directly finished through Master. And master can distribute the current and voltage automatically. Master and Slave connection simplifies the connection and easier to use.

User-friendly Operation Panel Design

IT6500 series power supplies provide multiple programming and controlling methods, users can adjust the specifications by the knob or numeric keys easily. The setting parameters will be displayed on the VFD screen simultaneously.

Power Supply

Analog Interfaces

On the rear panel of some IT6500 series models, there is a DB25 analog interface. Users can control 0~100% of full scale output voltage and current on the front panel through 0~10V or 0~5V analog, 0~10KΩ or 0~5KΩ is also OK. Analog interface meets the control requirement in industry production. If it is no need to control through PC, then you can control the analog output voltage by PLC.

DB-25
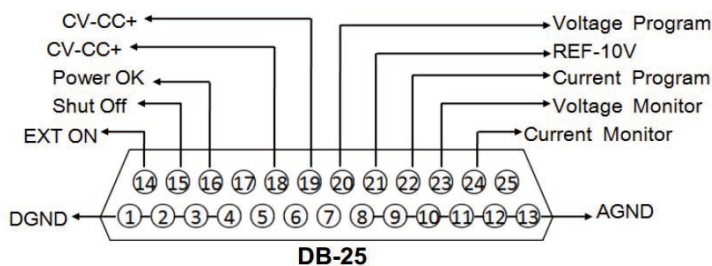
Remote Sense Function

IT6500 series power supplies have remote sense function. The function can compensate the loss of large voltage-drop on connection lines due to long connection wires.

Protection Functions

IT6500 series power supplies provide OVP, OCP, OPP, OTP protection functions. Once the circuit value (current, voltage, power or temperature) above the setting value (current, voltage, power or temperature), the protection function will start. For instance, in OCP mode, the power supply will stop to output and display "OCP". OVP is the same theory. Over temperature protection (OTP) starts to work when the internal temperature of the instrument is over 75 ℃. Once the OTP starts, the power supply will stop to output and display "OTP".

Power Supply

IT6502D Rear Panel

Analog Control Interface | Output Terminals | GPIB | USB | RS232 | RS485 | AC Power Socket
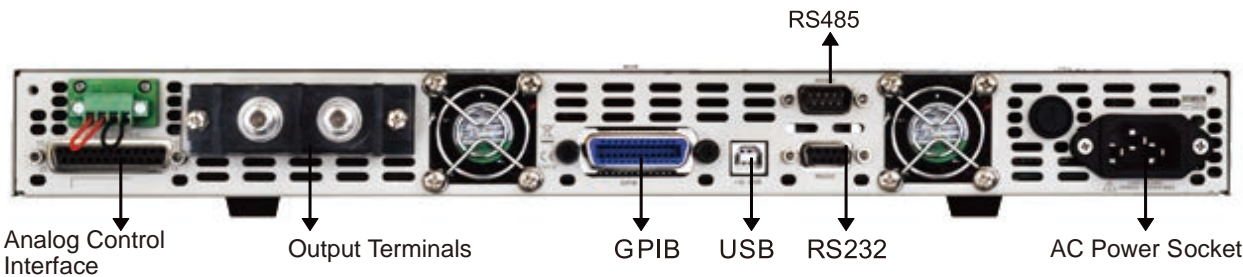
IT6500 Specifications

Parameters		Basic Products	High Performance Products		
		IT6502D	IT6512A	IT6513	IT6513A
Output Rating	voltage	0-80V	0~80V	0~150V	0~150V
	current	0-60A	0~60A	0~30A	0~30A
	power	0-800W	0~1200W	0~1200W	0~1200W
Load Regulation	voltage	≤0.01%+8mV		≤0.05%+30mV	
	current	≤0.1%+10mA		≤0.1%+30mA	
Line Regulation	voltage	≤0.02%+2mV		≤0.02%+20mV	
	current	≤0.02%+2mA		≤0.02%+10mA	
Setup Resolution	voltage	1mV		3mV	
	current	1mA		1mA	
Readback Resolution	voltage	1mV		3mV	
	current	1mA		1mA	
Setup Accuracy	voltage	≤0.02%+30mV		≤0.05%+30mV	
	current	≤0.1%+0.1%FS		≤0.2%+0.1%FS	
Readback Accuracy	voltage	≤0.02%+30mV		≤0.05%+30mV	
	current	≤0.1%+0.1%FS		≤0.2%+0.1%FS	
Ripple	Vpp	≤30mVp-p		≤60mVp-p	
	Irms	≤20mArms		≤40mArms	
Temp.coefficient	voltage	≤0.02%+30mV		<0.02%+30mV	
	current	≤0.05%+10mA		≤0.05%+10mA	
Dimension	W*H*D	415mmW*44mmH*500mmD		415mmW*44mmH*500mmD	
Weight	Kg	8.5Kg		8.5Kg	

For higher power test，please contact ITECH.

IT6900A Wide-range Programmable DC Power Supply

IT6900A series wide range programmable power supply has built-in standard RS232, USB, GPIB, RS485 and analog interface (RS485 and analog interface are just for IT6900B), supports SCPI protocol, facilitate remote control, industrial PLC control and the formation of intelligent test platform. Remote compensation terminals avoid the problem of inaccurate testing caused by voltage drop on the wire. Low ripple, low noise and built-in digital voltmeter make IT6900A easy to do external measurement. IT6900A can be widely used in testing DC-DC power supply module, battery charging and sensors and other test areas.

Applications

DC-DC power module, battery charging and sensors, etc.

Feature

- VFD display
- Adjust voltage and current via knob or numerical key pad
- High accuracy and high resolution
- Adjust digital step value via cursor
- Output voltage and current values accordance with procedure
- Output Timer(0.1 ~ 99999.9S) Function
- Low ripple and low noise
- Remote Sense Function
- Intelligent fan control
- Rich SCPI instructions to facilitate the formation of intelligent test platform
- Support front and rear panel output
- Optional external analog function
- Standard communication interface RS232/USB/GPIB

Auto-range Function

IT6900A series power supply can achieve the combined output of multiple voltage and current at a fixed power. Single power supply can meet different DUT tests with high voltage low current or high current low voltage, at the same time, because the output of voltage and current is controlled by the limit power, it will show the switching of voltage and current auto ranging.
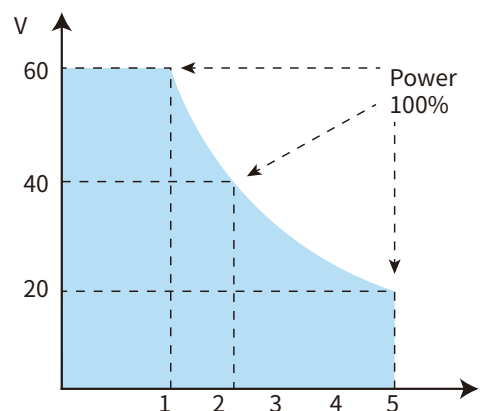
IT6932A I-V Curve Graph

Model	Voltage	Current	Power	Size
IT6922A	60V	5A	100W	1/2 2U
IT6932A	60V	10A	200W	1/2 2U
IT6933A	150V	5A	200W	1/2 2U
IT6942A	60V	15A	360W	1/2 2U
IT6952A	60V	25A	600W	1/2 2U
IT6953A	150V	10A	600W	1/2 2U

*IT6900A is standard model; IT6900B is optional for needing RS485 interface and external analog interface

For more information, please visit ITECH official website www.itechate.com

Remote Sense

In order to avoid the voltage drop caused by the length of the wire connecting the load, the remote test allows measurement directly on the terminal of the test object to improve the measurement accuracy. S +, S is the remote measurement terminal, +, - is the output positive and negative terminals. When using the remote measurement function, it is necessary to disconnect the wires connected to the "+, -" terminals and lead S +, S to the test object.

List Mode

List mode allows user to create a sequence of steps, store it into the power supply's non- volatile memory and execute the input parameters for generating a list include the name of the list file, the input steps (no more than 150 steps), the step time (the minimum is 100mS) and the value of each step.
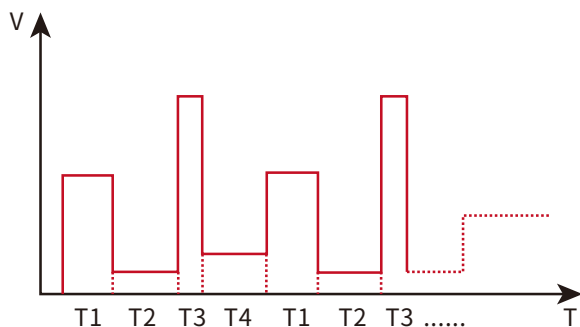
OVP Functions

IT6900A series power supply provides OVP function. The over voltage protection point of the power supply can be set via the keys on the panel. Once power supply is protected (OVP), the output will be off immediately and "OVP" indicator light will be lit, the VFD display "OVER VOLT".

Separate Local key can quickly switch to panel operation mode from PC operation mode

Built-in DVM

IT6900A provides a built-in digital meter which can measure DC volts in a range from 0.001V to 61.000V. The voltage value is displayed on the left bottom field of the display.

Timer Function

IT6900A series supports output timer function, in ON mode, the indicator light "Timer" will be lit on the VFD screen. When output of power supply is opened, timer will begin to work, after reaching the definite time, output will be off automatically. Timing output time range is 0.1s~99999.9s.

Optional external analog interface

The rear panel DB9 analog interface is connected via cable and external DB9 socket board. The corresponding pin on the DB9 socket board is added 0~10V voltage to simulate the voltage or current output from 0 to full-scale.

IT9000 PC software

IT6900A series has built-in RS232, USB, GPIB and other communication interfaces, and provides free IT9000 series software. Using PC software, IT6900A can easily remote control, set voltage and current, record storage data, programming, and test automatically.

Power Supply
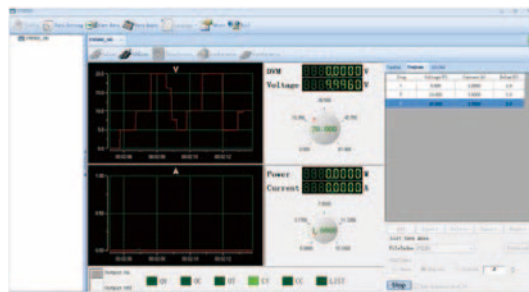
IT6900A Specifications

		IT6922A	IT6932A	IT6933A
Rating	Voltage	0~60V	0~60V	0~150V
(0℃~40℃)	Current	0~5A	0~10A	0~5A
	Power	100W	200W	200W
Load regulation	Voltage	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+20mV
±(%of output+offset)	Current	≤0.05%+2mA	≤0.05%+4mA	≤0.01%+6mA
Power regulation	Voltage	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+20mV
±(%of output+offset)	Current	≤0.05%+2mA	≤0.05%+4mA	≤0.01%+6mA
Programmong resolution	Voltage	1mV	1mV	1mV(<100V),10mV(≥100V)
	Current	0.1mA	1mA	0.1mA
Readback value resolution	Voltage	1mV	1mV	1mV(<100V),10mV(≥100V)
	Current	0.1mA	1mA	0.1mA
Programmong accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+10mA
Readback accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+10mA
Ripple	Voltage	≤5mVp-p	≤8mVp-p	≤30mVp-p
(20Hz ~20MHz)	Current	≤5mArms	≤6mArms	≤6mArms
Rise Time	Voltage	≤150mS(10%-90%)	≤150mS(10%-90%)	≤200ms
Fall time	Voltage	≤2S(10%-90%)	≤2S(10%-90%)	≤150ms
Size（mm)		214.5mmW×88.2mmH×354.6mmD		
Weight		7.7Kg	7.7Kg	7.7Kg

		IT6942A	IT6952A	IT6953A
Rating	Voltage	0~60V	0~60V	0-150V
(0℃~40℃)	Current	0~15A	0~25A	0-10A
	Power	360W	600W	600W
Load regulation	Voltage	≤0.01%+30mV	≤0.01%+30mV	≦0.01%+25mV
±(%of output+offset)	Current	≤0.05%+6mA	≤0.1%+10mA	≦0.5%+10mA
Power regulation	Voltage	≤0.01%+30mV	≤0.01%+30mV	≦0.01%+25mV
±(%of output+offset)	Current	≤0.05%+6mA	≤0.1%+10mA	≦0.5%+10mA
Programmong resolution	Voltage	1mV	1mV	1mV(< 100V) 10mV (> 100V)
	Current	1mA	1mA	1mA
Readback value resolution	Voltage	1mV	1mV	1mV(< 100V) 10mV (> 100V)
	Current	1mA	1mA	1mA
Programmong accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.03%+5mV	≤0.03%+5mV	≦0.03%+20mV
	Current	≤0.1%+15mA	≤0.1%+25mA	≦0.1%+25mA
Readback accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.03%+5mV	≤0.03%+5mV	≦0.03%+20mV
	Current	≤0.1%+15mA	≤0.1%+25mA	≦0.1%+25mA
Ripple	Voltage	≤15mVp-p	≤20mVp-p	≦50mVp-p
(20Hz ~20MHz)	Current	≤8mArms	≤15mArms	≦15mArms
Rise Time	Voltage	≤200ms(10%-90%)	≤150mS(10%-90%)	≦150ms
Fall time	Voltage	≤2.5s(10%-90%)	≤2S(10%-90%)	≦7s
Size（mm)		214.5mm*88.2mm*445mm		
Weight		7.7Kg	15Kg	15Kg

*This information is subject to change without notice

IT6900A Dimension (Unit: mm)
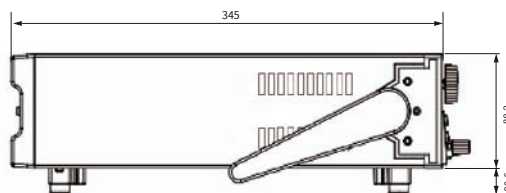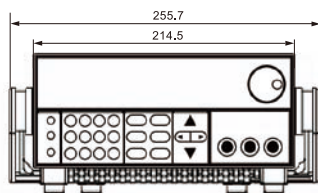
- **IT6922A/IT6932A/IT6933A/IT6942A:**
  214.5mmW x 88.2mmH x 345mmD

- **IT6952A/IT6953A:**
  214.5mmW x 88.2mmH x 446mmD

IT6860A & IT6870A Dual-range Programmable DC Power Supply

IT6860A series (72~180W) programming DC power supply offers dual-range voltage switch for your choice, which can replace two ordinary ones, greatly saving your cost and operation space. At the same time, IT6860A supports panel List programming and software operation via computer to meet more communication demands. IT6860A series is suited for laboratory testing, online production test, maintenance testing, etc.

Applications

Laboratory testing, production line production testing, maintenance testing, etc.

Feature

- Dual range output
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution
- Remote sense
- Output voltage and current values accordance with procedure
- Adjust voltage and current via Knob
- Low ripple and low noise
- OVP, OTP
- Built-in RS232/USB/GPIB interface *1
- Monitor software via PC
- Support SCPI command, compatible IT6800 frame format protocol

*1 Only IT6800B dual range series have built-in GPIB communication interface

Dual-range Output

IT6860A series DC power supply offers high and low voltage range for your choice. When needing high voltage output, high voltage is optional, when needing high current, low voltage is optional.

Output timer Function

This series supports output timer function, in ON mode, the indicator light "Timer" will be lit on the VFD screen. When output of power supply is opened, timer will begin to work, after reaching the definite time, output will be off automatically. Timing output time range is 0.1s~9999.9s or 0.1m~9999.9m.

Model	Voltage	Current	Power	Interface
IT6861A	20V/8V	5A/9A	100W/72W	RS232/USB
IT6862A	32V/12V	3A/6A	96W/72W	RS232/USB
IT6863A	72V/32V	1.5A/3A	108W/96W	RS232/USB
IT6872A	35V/15V	4A/7A	140W/105W	RS232/USB
IT6873A	75V/32V	2A/4A	150W/128W	RS232/USB
IT6874A	150V/60V	1.2A/2A	180W/120W	RS232/USB

*The IT6800A dual range series is without GPIB interface. The remaining parameters are the same as the IT6800B series.
If needing GPIB interface, the IT6800B dual range series can be selected.

Power Supply

Power Supply

List Mode

List mode allows user to create a sequence of steps, store it into the power supply's nonvolatile memory and execute it. The input parameters for generating a list include the name of the list file, the input steps (no more than 150 steps), the step time (the minimum is 100mS) and the value of each step.

Rear Panel of IT6860A

USB Interface   RS232 Interface

Air vents

Remote Sense Terminal

Power Socket

*Compared with IT6860A series power supplies, IT6860B series has add GPIB interface besides built-in RS232 and USB interface.

Remote Sense

In order to avoid the voltage drop caused by the length of the wire connecting the load, the remote test allows measurement directly on the terminal of the test object to improve the measurement accuracy. S +, S is the remote measurement terminal, +, - is the output positive and negative terminals. When using the remote measurement function, it is necessary to disconnect the wires connected to the "+, -" terminals and lead S +, S to the test object.
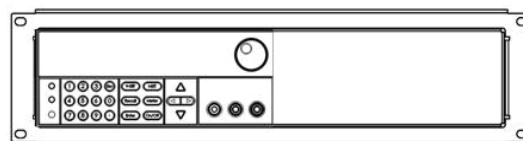
19" installation (One unit)
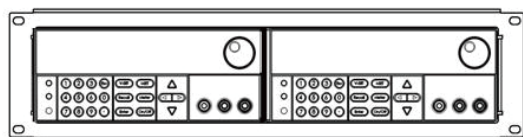
19" installation (Two units)
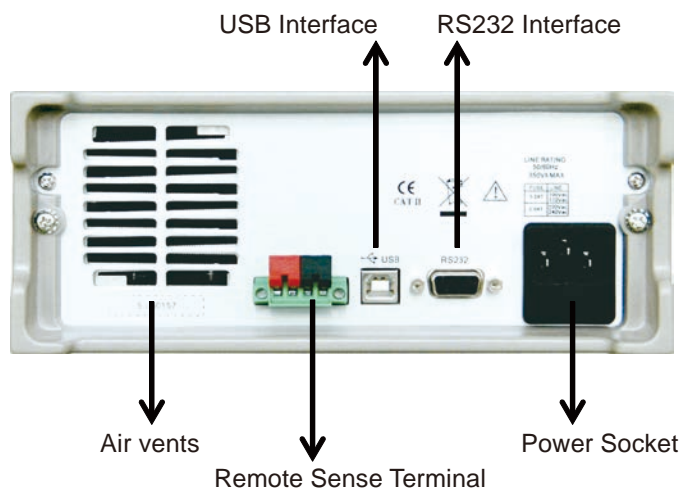
Standard Accessories:

Power Cord

Test Report

User Manual

Optional Accessories:

IT-E151A Mounting Kit

IT6800A Specifications

		IT6861A	IT6862A	IT6863A
Rating	H file	0~20V,5A	0-32V,3A	0~72V,1.5A
(0℃~40℃)	L file	0~8V,9A	0-12V,6A	0~32V,3A
	Power	H:100W L:72W	H:96W L:72W	H:108W L:96W
Load regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
±(%of output+offset)	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA
Power regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV
±(%of output+offset)	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA
Programmong resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Readback value resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Programmong accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Readback accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Ripple	Voltage	≤3mVp-p	≤4mVp-p	≤3mVp-p
(20Hz ~20MHz)	Current	≤9mArms	≤7mArms	≤6mArms
Rise Time	Voltage	≤90mS(10%-90%)	≤90mS(10%-90%)	≤90mS(10%-90%)
Fall time	Voltage	≤150m(90%-10%)	≤200m(90%-10%)	≤250m(90%-10%)
Dynamic recovery time	Voltage	50us (50%-100% load Recover to 75mV)	50us (50%-100% load Recover to 75mV)	50us (50%-100% load Recover to 75mV)
Size (mm)		214.5mm×88.2mm×354.6mm	214.5mm×88.2mm×354.6mm	214.5mm×88.2mm×354.6mm
Weight		8.5Kg	8.5Kg	8.5Kg

		IT6872A	IT6873A	IT6874A
Rating	H file	0-35V,4A	0-75V,2A	0-150V,1.2A
(0℃~40℃)	L file	0-15V,7A	0-32V,4A	0-60V,2A
	Power	H:140W L:105W	H:150W L:128W	H:180W L:120W
Load regulation	Voltage	≦0.01%+5mV	≦0.01%+4mV	≦0.01%+4mV
±(%of output+offset)	Current	≦0.01%+3mA	≦0.01%+2mA	≦0.01%+2mA
Power regulation	Voltage	≦0.01%+5mV	≦0.01%+4mV	≦0.01%+4mV
±(%of output+offset)	Current	≦0.01%+3mA	≦0.01%+2mA	≦0.01%+2mA
Programmong resolution	Voltage	1mV	1mV	1mV(<100V) 10mV(≧100V)
	Current	0.1mA	0.1mA	0.1mA
Readback value resolution	Voltage	1mV	1mV	1mV(<100V) 10mV(≧100V)
	Current	0.1mA	0.1mA	0.1mA
Programmong accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≦0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Readback accuracy (Within 12 months) (25℃±5℃) ±(%of output+offset)	Voltage	≤0.04%+8mV	≤0.04%+8mV	≦0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Ripple	Voltage	≦3mVp-p/1mVrms	≦3mVp-p/1mVrms	≦5mVp-p and 1.5mVrms
(20Hz ~20MHz)	Current	＜6mArms	＜6mArms	＜6mArms
Rise Time	Voltage	≤90ms(10%-90%)	≤90ms10%-90%)	≤150ms(10%-90%)
Fall time	Voltage	<350ms	<450ms	≤2.5s(90%-10%)
Dynamic recovery time	Voltage	50us (50%-100% load Recover to 75mV)	50us (50%-100% load Recover to 75mV)	100us
Size (mm)		214.5mm×88.2mm×354.6mm	214.5mm×88.2mm×354.6mm	214.5mm×88.2mm×354.6mm
Weight		8.5Kg	8.5Kg	7.5kg

*This information is subject to change without notice

Power Supply

ITECH ELECTRONICS
Your Power Testing Solution

IT6100B High Accuracy Programmable DC Power Supply
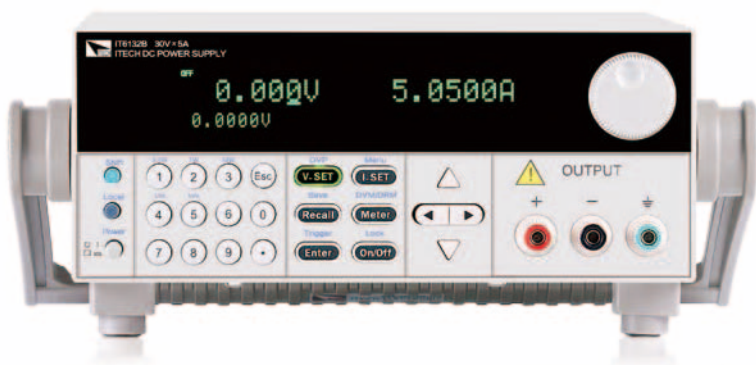
Power Supply

Applications

Aerospace power module testing, circuit board testing, medical equipment testing, electronic rectifier testing, etc.

IT6100B series (86 ~ 1200W) high speed high resolution programmable DC power supply is with ultra-high voltage rising speed, resolution up to 0.1mV / 0.01mA, the latest output waveform priority mode allows rising waveform of voltage or current with high-speed and no overshoot, which is widely used in aerospace power modules and other high-precision test occasions. IT6100B has built-in USB / RS232 / GPIB communication interface and the panel supports List programming, which can provide multi-purpose solutions according to customer design and testing demands, easy to use.

Feature

- Output linear adjustment, high speed, reliable, low noise
- High accuracy and resolution
- High voltage rising edge
- Built-in 5½ digital voltmeter and Ohmmeter
- Memory capacity: 100 groups
- List mode
- Timer function (0.01~60000S)
- Remote sense interface to compensate line voltage
- Built-in RS232/USB/GPIB interface and support SCPI protocol

Model	Voltage	Current	Power	Size
IT6121B	20V	5A	100W	1/2 2U
IT6122B	32V	3A	96W	1/2 2U
IT6123B	72V	1.2A	86W	1/2 2U
IT6132B	30V	5A	150W	1/2 2U
IT6133B	60V	2.5A	150W	1/2 2U

Optional Accessories

IT-E121 RS232 Communication Cable
IT-E122 USB   Communication Cable
IT-E135 GPIB   Communication Cable
IT-E151A (For Under 1200W) 19-inch Rack Mount Kit

High voltage rise speed

Comparing with general high speed power supplies, IT6100B series power supplies reduce their ripple and noise to the lowest level. Their high voltage rise speed suits for all high speed and precise testing occasions.

Digital voltage milliohmmeter

IT6100B series has built-in precision digital voltage ohmmeter
Digital ohmmeter: Provide four-wire method to measure resistance, measurement range: 0 ~ 1Ω
Digital voltmeter: A 5½ voltmeter is provided to measure the external voltage, measurement range: 0 ~ 40V

IT6100B Specifications

		IT6121B	IT6122B	IT6123B	IT6132B	IT6133B
DC output range	Voltage	0~20V	0~32V	0~72V	0~30V	0~60V
	Current	0~5A	0~3A	0~1.2A	0~5A	0~2.5A
	Power	100W	96W	86.4W	150W	150W
Line regulation	Voltage	<0.01%+1mV	<0.01%+1mV	<0.01%+1mV	<0.01%+1mV	<0.01%+2mV
	Current	<0.05%+1mA	<0.05%+1mA	<0.05%+1mA	<0.05%+1mA	<0.05%+0.05mA
Load regulation	Voltage	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV	<0.01%+2mV
	Current	<0.05%+0.1mA	<0.05%+0.1mA	<0.05%+0.1mA	<0.05%+1.5mA	<0.05%+0.5mA
Ripple and noise (20HZ-7MHZ)	Voltage	<1mv Vrms/<3mv Vpp	<1mv Vrms/<3mv Vpp	<1mv Vrms/<4mv Vpp	<1mv Vrms/<4mv Vpp	<1mv Vrms/<5mv Vpp
	Current	<3mA rms	<3mA rms	<3mA rms	<4mA rms	<3mA rms
Programming resolution	Voltage	1mV	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Programming accuracy	Voltage	±0.03%+3mV	±0.03%+3mV	±0.03%+6mV	±0.03%+3mV	±0.03%+6mV
	Current	±0.05%+2mA	±0.05%+2mA	±0.05%+1mA	±0.05%+2.5mA	±0.05%+1.5mA
Display value resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.01mA	0.01mA	0.01mA	0.01mA	0.01mA
Read back accuracy	Voltage	±0.02%+3mV	±0.02%+3mV	±0.02%+5mV	±0.02%+3mV	±0.02%+5mV
	Current	±0.05%+2mA	±0.05%+2mA	±0.05%+1mA	±0.05%+2.5mA	±0.05%+1.5mA
Transient response (typical)						
Load changes 50% -100% Load back to less than 75mV		<200us	<200us	<200us	<200us	<200us
Set the change voltage to rise Set the voltage from 0% to 100%, voltage change from 10% to 90% of the time		<20ms	<20ms	<20ms	<20ms	<20ms
Set the change voltage to drop Set the voltage from 0% to 100%, voltage change from 10% to 90% of the time		<200ms	<150ms	<150ms	<250ms	<200ms
Overvoltage protection	Range (typical)	1~19V	1~31V	1~71V	1~29V	1~59V
	Accuracy (typical)	± (setting value * 0.5% + 0.5V)				
	Response time (typical)	<10ms				
DVM(DC)						
Display value accuracy		±0.02%+10mV				
Display resolution		0.1mV when less than 10V; 1mV when more than 10V				
Enter the differential mode voltage range		0~40Vpk				
Enter the common mode voltage range		0~30Vpk				
Common mode rejection ratio		<0.1%				
Weight		7Kg				

*This information is subject to change without notice

Digital Voltmeter

The digital milliohmmeter: IT6120B provide 4-wires resistance measurement method, measuring range: 0~1K; The digital voltmeter: IT6100B provide 5 ½ voltage meter to measure external voltage, measuring range:0~40V.

Rear Panel
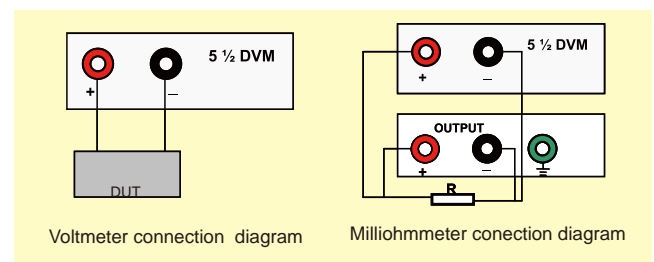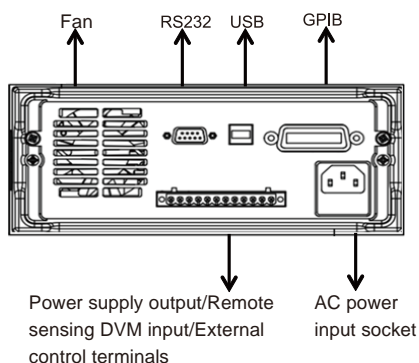
Fan   RS232   USB   GPIB

Power supply output/Remote sensing DVM input/External control terminals

AC power input socket

Voltmeter connection diagram

Milliohmmeter conection diagram

Optional Accessories

IT-E121 RS232 Communication Cable

IT-E122 USB Communication Cable

IT-E135 GPIB Communication Cable

IT-E151 (For Under 1200W) 19-inch Rack Mount Kit

Standard Accessories

Power Cord

User Manual

Calibration Report

Power Supply

IT7300 Programmable AC Power Supply

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.

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

"AC power supply" + "Power meter"
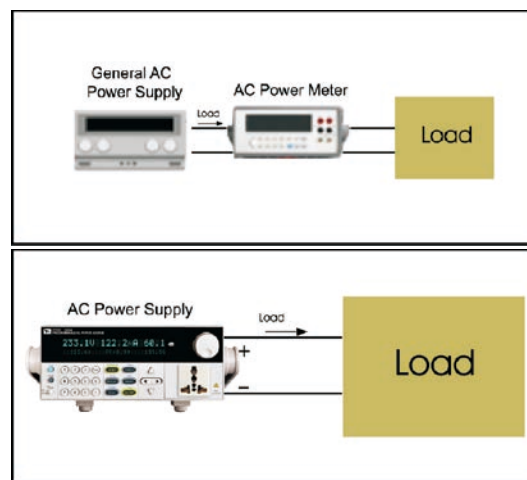
Normally, when test AC products, a power meter is needed to connect between AC power supply and DUT in series. Since power meter is built-in in IT7321, users don't need to connect an extra power meter. It is not only easy for test, but also save cost.

Model	Specification
IT7321	300V/3A/300VA

Power Supply

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.
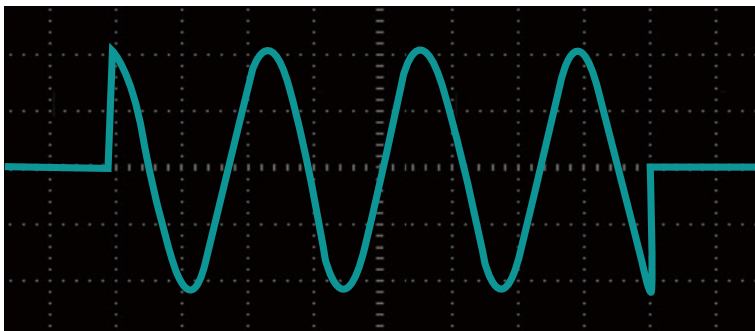
Built-in Communication Interface

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 Disturbance 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.

Power Supply
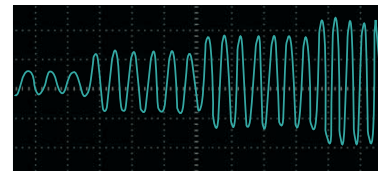
Step Mode
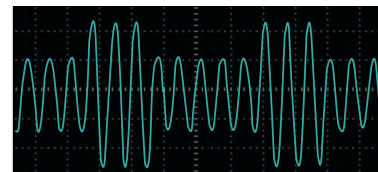
Pulse Mode

List Mode
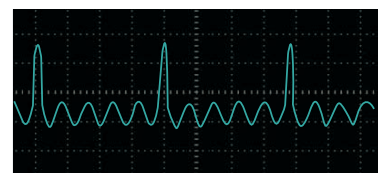
Surge Waveform

Trap Wave

Power Supply
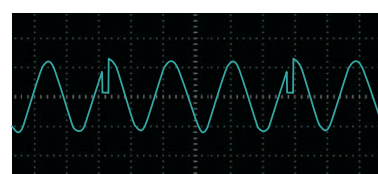
IT9000 software

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

IT7300 Specifications

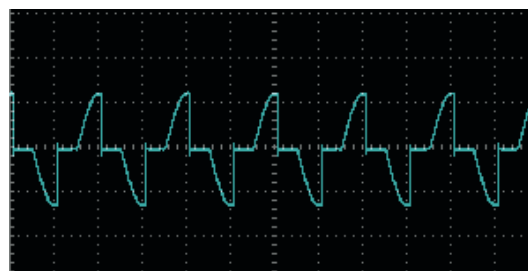| Model		IT7321	IT7322	IT7322H	IT7324H
INPUT					
Phase		1	1	1	1
Voltage		220Vac±10% or 110Vac±10%	220Vac±10% or 110Vac±10%	220Vac±10% or 110Vac±10%	220Vac±10% or 110Vac±10%
Frequency		47~63Hz	47~63Hz	47~63Hz	47~63Hz
Max current		6.3A(220Vac) or 10A(110Vac)	15A(220Vac) or 30A(110Vac)	15A(220Vac) or 30A(110Vac)	30A(220Vac) or 60A(110Vac)
Power factor		0.5(typical)	0.7(typical)	0.7(typical)	0.7(typical)
AC OUTPUT					
Max power		300VA	750VA	750VA	1500VA
Max current (rms)	0~150V	3A	6A	0~250V 3A	6A
	0~300V	1.5A	3A	0~500V 1.5A	3A
Max current (peak)	0~150V	9A	18A	0~250V 9A	18A
	0~300V	4.5A	9A	0~500V 4.5A	9A
Phase		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		3	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	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)	≤0.5%FS(Resistive Load)
Response time		<100us	<100us	<100us	<100us
SETTING					
Voltage	Range	0~300V High, 150/300V Auto	0~300V High, 150/300V Auto	0-500V High, 250/500V Auto	0~500V High, 250/500V Auto
	Resolution	0.1V	0.1V	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+0.6V)	±(0.2%+1.2V)	±(0.2%+1.2V)
	TC*1	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
Frequency	Range	45~500Hz	45~500Hz	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	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	0.1Hz	0.1Hz
Phase angle	Range	0~360°	0~360°	0~360°	0~360°
	Resolution	0.1°	0.1°	0.1°	0.1°
	Accuracy	±1°(45-65Hz)	±1°(45-65Hz)	±1°(45-65Hz)	±1°(45-65Hz)
MEASUREMENT					
Voltage(rms)	Range	0~300V	0~300V	0~500V	0~500V
	Resolution	0.1V	0.1V	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+0.6V)	±(0.2%+1.2V)	±(0.2%+1.2V)
	TC*1	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
Current(rms)	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 *
	Resolution	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
	Accuracy	L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+40mA)	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%+60mA)	L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+60mA)
	TC*1	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)	±(0.04% per degree from 25°C)
Current(peak)	Range	0~12A	0~18A	0~9A	0~24A
	Resolution	0.01A	0.01A	0.01A	0.01A
	Accuracy	±(1%+0.36A)	±(1%+0.36A)	±(1%+0.36A)	±(1%+0.36A)
	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)
Power	Resolution	L:0.01W M:0.1W H:1W	L:0.01W M:0.1W H:1W	L:0.01W M:0.1W H:1W	L:0.01W M:0.1W H:1W
	Accuracy	L:±(0.2%+0.2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+4W) (47HZ-65HZ)	L:±(0.2%+0.2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+6W) (47HZ-65HZ)	L:±(0.2%+0.2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+10W) (47HZ-65HZ)	L:±(0.2%+0.2W) (47HZ-65HZ) M:±(0.2%+2W) (47HZ-65HZ) H:±(0.2%+10W) (47HZ-65HZ)
	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)
GENERAL					
Memory storage		10 memories	10 memories	10 memories	10 memories
Synchronous output signal		Output Signal 5V,BNC type	Output Signal 5V,BNC type	Output Signal 5V,BNC type	Output Signal 5V,BNC type
Interface (optional)		LAN,USB,RS232	LAN,USB,RS232,GPIB	LAN,USB,RS232,GPIB	LAN,USB,RS232,GPIB
Operating environment		0~40°C/20-80%RH	0~40°C/20-80%RH	0-40°C/20-80%RH	0~40°C/20-80%RH
Size		1/2 19" 2U	19" 3U	19" 3U	19" 3U
Weight		10Kg	37Kg	37Kg	37Kg

*1 Temperature Coefficient
* This information is subject to change without notice
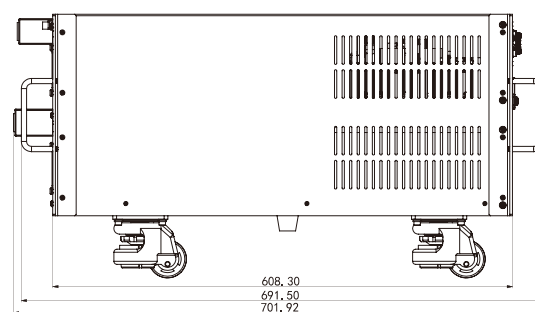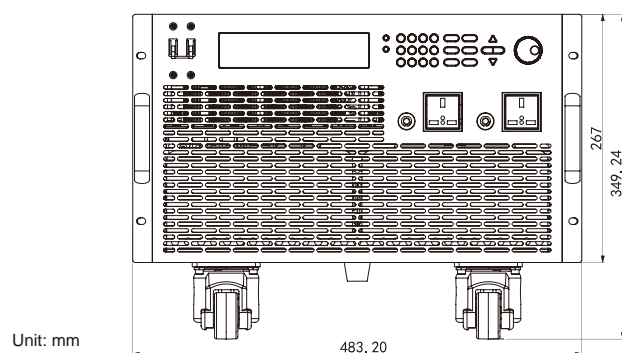
IT7321 Dimension figure

Unit: mm

Power Supply
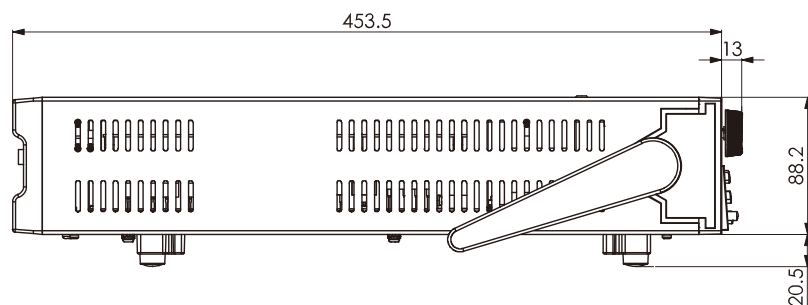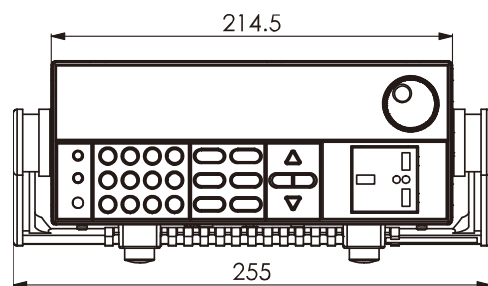
IT7300 Specifications

Model		IT7324	IT7326H	IT7326
INPUT				
Phase		1	1	1
Voltage		220Vac±10% or 110Vac±10%	220Vac±10%	220Vac±10%
Frequency		47~63Hz	47~63Hz	47~63Hz
Max current		30A(220Vac) or 60A(110Vac)	60A	60A
Power factor		0.7(typical)	0.7(typical)	0.7(typical)
AC OUTPUT				
Max power		1500VA	3000VA	3000VA
Max current (rms)	0~150V	12A	12A	24A
	0~300V	6A	6A	12A
Max current (peak)	0~150V	36A	36A	72A
	0~300V	18A	18A	36A
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)	≤0.5% 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	0~300V High, 150/300V Auto
	Resolution	0.1V	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+1.2V)	±(0.2%+0.6V)
	Temperature Coefficient	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)
Frequency	Range	45-500Hz	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	0.1Hz at 45-99.9Hz 1Hz at 100-500Hz
	Accuracy	0.1Hz	0.1Hz	0.1Hz
Phase angle	Range	0~360°	0~360°	0~360°
	Resolution	0.1°	0.1°	0.1°
	Accuracy	±1°(45-65Hz)	±1°(45-65Hz)	±1°(45-65Hz)
MEASUREMENT				
Voltage(rms)	Range	0~300V	0~500V	0~300V
	Resolution	0.1V	0.1V	0.1V
	Accuracy	±(0.2%+0.6V)	±(0.2%+1.2V)	±(0.2%+0.6V)
	Temperature Coefficient	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)
Current(rms)	Range	L:120.0mA * M:1.200A * H:12.00A *	L:120.0mA * M:1.200A * H:12.00A *	L:120.0mA * L:120.0mA * H:24.00A *
	Resolution	L:0.1mA M:1mA H:10mA	L:0.1mA M:1mA H:10mA	L:0.1mA M:1mA H:10mA
	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)
		H:±(0.2%+80mA)	H:±(0.2%+60mA)	H:±(0.2%+0.1A)
	Temperature Coefficient	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)	±(0.04% per degree from 25℃)
Current(peak)	Range	0~48A	0~48A	0~96A
	Resolution	0.01A	0.01A	0.01A
	Accuracy	±(1%+0.36A)	±(1%+0.36A)	±(1%+0.36A)
	Temperature Coefficient	±(0.05% per degree from 25℃)	±(0.05% per degree from 25℃)	±(0.05% per degree from 25℃)
Power	Resolution	L:0.01W M:0.1W H:1W	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)	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)
		H:±(0.2%+10W) (47HZ-65HZ)	H:±(0.2%+10W) (47HZ-65HZ)	H:±(0.2%+15W) (47HZ-65HZ)
	Temperature Coefficient	±(0.05% per degree from 25℃)	±(0.05% per degree from 25℃)	±(0.05% per degree from 25℃)
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 (optional)		Output Signal 5V,BNC type	LAN,USB,RS232,GPIB	LAN,USB,RS232,GPIB
Operating environment		0~40℃/20-80%RH	0~40℃/20-80%RH	0~40℃/20-80%RH
Size		1/2 19" 3U	19" 6U	19" 6U
Weight		37Kg	103Kg	103Kg

* This information is subject to change without notice

IT7324 Dimension figure

Unit: mm
483.20
267
349.24
608.30
691.50
701.92

Power Supply

IT9121E Power Meter

Applications

Motors, household appliances, UPS , etc.

The IT9121E power meter can provide the maximum input of 600Vrms and 20Arms and measurement bandwidth of 100kHZ, and can be easily used for measuring the voltage, current, power, frequency, harmonics and other parameters. The standard configuration includes USB, GPIB, RS232 and LAN communication interfaces and also interfaces for USB-based peripheral devices. The user can save the measured parameters into the external storage medium. The basic voltage and current accuracy is 0.1%. Moreover, the power meter has rich integrating functions, such as the active power. It is widely applied in test of motors, household appliances, UPS, etc.

Feature

● 4.3-inch color LCD (TFT)

● The row number of matrix displayed on the screen can be set freely and common measurement parameters can be displayed

● Input range: 600Vrms / 20Arms

● The voltage, current, power, harmonics and other parameters can be measured at the same time

● The accuracy of voltage and current measurement is up to 0.1%

● The interfaces for USB-based peripheral devices are provided, and the user can save data into the external storage medium

● The power analyzer has rich and powerful integrating functions, and can be used for measuring electric energy which is bought or sold

● The power meter also has a function of frequency measurement

● Standard built-in USB, GPIB, RS232 and Ethernet communication interfaces

Communication Interface

The standard configuration of the IT9121E power analyzer includes, the USB, GPIB, RS232 and Ethernet communication interfaces. Remote control of the power meter can be realized via these interfaces. In addition, IT9121E is also equipped with a USB-Host interface for connection of U discs and other devices, and the user can save screenshots into the U disc.

Rich Measurement Function

The IT9121E power meter can measure all AC and DC parameters, including the active power, reactive power, apparent power, power factor, voltage, current, frequency, phase difference, etc. It also has the function of integral measurement, and can be widely applied in tests of motors, household PCB, UPS, etc.

Model	Voltage	Current	Size
IT9121E	600V	20A	1/2 2U

Power Meter

Integral Measurement Function

Due to the power integral function, the sold/bought electric energy in the interconnected power grids can be measured. The IT9121E power analyzer can provide the current integral and active power integral (Wh). Automatic range switching and accurate integral measurement can be carried out in the Buy and Sell mode, according to the input level.

Self-define Interface Display Style

IT9100 power meter provides a 4.3-inch color high-resolution TFT LCD for the user, and real-time values can be displayed with high brightness and remarkable colors even in a dark test environment. In addition, the IT9100 power meter provides multiple interface display styles (View1, View4 and View12). The user can customize the screen display parameter type and display sequence. The humanized design meets engineers' measurement demands in different tests.

Abundant measurement function

IT9100 power meter can measure all AC and DC parameters, including active power, reactive power, apparent power, power factor, voltage, current, frequency, phase difference, etc.. IT9100 provides integrated measurement and up to 50 times of the harmonic measurement function. It is widely used in electronic motors, home appliances PCB board, UPS power supply and other test areas.

Current Sensor Input

The IT9121E power analyzer can be used for measuring the voltage of 0-600V and current of 0-20A. For measurement of the current above 20A, the voltage input type current clamp or current transducer can be applied. When IT9121 is used, the user can select the 50mV-2V (EX1) or 2.5V-10V (EXT2).

IT-E185 Power meter fixture

IT-E185 is an optional accessory, it can facilitate wiring test of IT9100 power meter for users.
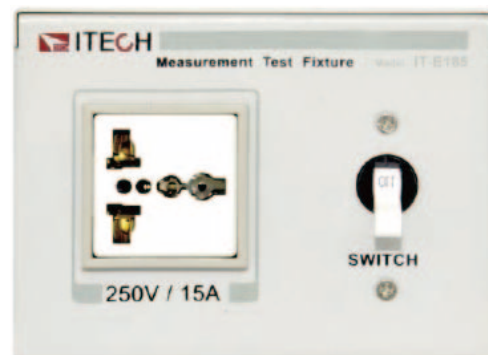
Specification

General Specification

Model	IT9121E
AC input voltage	100 VAC — 240 VAC 47-63 Hz
Warm-up time	Above 30 minutes
Operating environment	Temperature : 5℃ — 40℃ Humidity : 30% RH— 75% RH（No condensation） Altitude : 2000 m or less 2000 m
Storage environment	Temperature : -20℃ — 50℃ Humidity : 30% RH— 75% RH（No condensation） Altitude : 2000 m or less 2000 m
Installation	Indoors
Safety	IEC 61010-1, EN 61010-1, Measurement CAT Ⅱ
Maximum power consumption	50 VA

Screen Display

	Detailed Information
Display type	Dimension: 4.3-inch color TFT display Full screen pixel：480（horizontal）*272（vertical）points Waveform display pixel: 384（horizontal）*194（vertical）points Operating temperature: -20℃～70℃ Storage temperature: -30℃～80℃ Value display：matrix display

Input

Item	Specifications
Input terminal type	voltage: plug-in terminal （safety terminal）
Input type	Current Direct input: large binding post External current sensor input DB9 connector
Input type	Voltage: Floating input through resistive voltage divider Current: Floating input through shunt

Voltage	Crest factor 3	IT9121E：15V/30V/60V/150V/300V/600V
	Crest factor 6	IT9121E：7.5V/15V/30V/75V/150V/300V
Direct Current input	Crest factor 3	IT9121E：5mA/10mA /20mA /50mA /100mA / 200mA /0.5A/1A/2A/5A/10A/20A
	Crest factor 6	T9121E：2.5 mA /5mA/10mA/25mA/50mA/100mA/ 250mA/0.5A/1A/2.5A/5A/10A.
External Current sensor input (/EX1)	Crest factor 3	IT9121E：2.5V/5V/10 V
	Crest factor 6	IT9121E：1.25V/2.5V/5V
External Current sensor input (/EX2)	Crest factor 3	IT9121E：50mV/100mV/200mV/500mV/1V/2V
	Crest factor 6	IT9121E：25mV/50mV/100mV/250mV/500mV/1V

Input impedance	Voltage: Input resistance: Approx. 2 MΩ, input capacitace: Approx.13 pF (in parallel with the resistance)
	current:
	• Direct input range 5 mA ~ 200 mA:
	  Input resistance: Appro x 505 mΩ
	  Input inductance: Appro x 0.1 µH
	• Direct input range 0.5A ~ 20 A:
	  Input resistance: Appro x 5 mΩ
	  Input inductance: Appro x 0.1 µH
	• Sensor input:
	  Input resistance:Appro x 100 kΩ （2.5 V ~ 10 V）
	  Input resistance:Appro x 20 kΩ （50 mV ~ 2 V）

Input bandwidth	DC, 0.5 Hz ~ 100kHz
Line filter	select OFF, cut off frequency of 500 Hz
Frequency filter	select OFF, cut off frequency of 500 Hz
Range	range of each unit can be set separately
A/D converter	Simultaneous conversion voltage an current inputs Resolution: 18-bit Maximum conversion rate: 10 µs

Voltage and Current Accuracy

Item	Specifications
Requirements	temperature：23 ± 5℃ humidity：30~75% RH Input waveform: Sine wave crest factor: 3, common-mode voltage: 0 V Number of displayed digits: 5 digits (6 digits when including the decimal point) Frequency filter : Turn on to measure voltage or current of 200 Hz or 30 minutes after warm-up time has passed After zero-level compensation or measurement range is changed
Accuracy	DC: ± (0.1% of reading + 0.2% of range) 10 Hz ≤ f < 45 Hz：± (0.1 % of reading + 0.2 % of range) 45 Hz ≤ f ≤ 66 Hz：± (0.1 % of reading + 0.1 % of range) 66 Hz < f ≤ 1kHz：± (0.1 % of reading + 0.2 % of range) 1 kHz < f ≤ 10 kHz: ± (0.07 *f) % of reading + 0.3% of range) 10 kHz < f ≤ 100 kHz: ± (0.5 % of reading + 0.5 % of range) ± [{0.04x(f-10)}% of reading

Active Power Accuracy

Item	Specifications
Requirements	same as the conditions for voltage and current. Power factor:1
Accuracy	DC: (0.1 % of reading + 0.2 % of range) 10Hz ≤ f < 45 Hz：± (0.3 % of reading + 0.2 % of range) 45 Hz ≤ f ≤ 66 Hz：± (0.1 % of reading + 0.1 % of range) 66 Hz < f ≤ 1kHz：± (0.2 % of reading + 0.2 % of range) 1 kHz < f ≤ 10 kHz: ± (0.1 % of reading + 0.3 % of range) ± [{0.067x(f-1)}% of reading] 10 kHz < f ≤ 100 kHz: ± (0.5 % of reading + 0.5 % of range) ± [{0.09x(f-10)}% of reading]
Influence of power factor	when power factor (λ)=0 (S:apparent power) ● ± 0.2 % of S for 45 Hz ≤ f ≤ 66 Hz ● ± {(0.2 + 0.2 × f) % of S } for up to 100 kHz as reference data f is frequency of input signal in kHz when 0 < λ < 1 (Φ: phase angle of the Voltage and current) (power reading)×[(power reading error%)+(power range %)× (power range/indicated apparent power value)+{tanΦ× (influence when λ=o)%}]
When the line filter is turned ON	45 ~ 66 Hz: Add 0.3 % of reading < 45 Hz: Add 1 % of reading
Temperature coefficient	same as the temperature coefficient for voltage and current
Accuracy when the crest factor is set to 6	accuracy obtained by doubling the measurement range error for the accuracy when the crest factor is set to 3
Accuracy of apparent power S	voltage accuracy +current accuracy
Accuracy of reactive power Q	accuracy of apparent power + [(√1.0004 - λ2) - (√1 - λ2)] ×100 %

Power Meter

| Accuracy of power factor λ | ± [(λ-λ/1.0002)+｜cosø-cos{ø+sin-1 (influence from the power factor when λ = 0%/100)}｜] ±1digit when voltage and current are at the measurement range rated input |
| Accuracy of phase difference Φ | ± [｜ø-cos-1(λ/1.0002)｜+sin-1(influence from the power factor when λ = 0 %/100)] ± 1digit when voltage and current are at the measurement range rated input |

Voltage, Current and Power Measurements

Item	Specifications
Measurement method	Digital sampling method
Crest factor	3 or 6
Wiring system	(one element model): single-phase , two-wire(1 P2 W)
Range select	select manual or auto ranging
Auto range	auto-range increase auto-range decline

	Name	Symbols And Meanings
Measurement parameters	Voltage current	Select RMS (the effective RMS value of voltage andcurrent)、 MEAN:(the rectified mean value calibrated to the RMS value of the voltage and the true RMS value of the current)、 RMN (rectified mean value of voltage and current DC:(simple average of voltage and current) AC: alternating current、PP: (peak value of voltage and peak value of current)
	Active power [W]	P
	Reactive power [var]	Q
	Apparent power [VA]	S
	Power factor [λ]	λ
	Phase di fference (°)	φ
	Frequency (Hz)	fU(FreqU) : voltage frequency fI(FreqI) : current frequency
	Max/min of voltage (V)	Upk+: voltage positive peak Upk-: voltage negative peak
	Max/min of current (A)	Ipk+: current positive peak Ipk-: current negative peak
	Crest factor	CfU: crest factor of voltage CfI: crest factor of current
	Integration	TM: integration time, WP：sum of positive and negative watt hour, WP+：positive power sum, WP-：negative power sum, q: sum of positive and negative ampere-hour, q+: positive ampere -hour sum, q-: negative ampere-hour sum
Measurement synchronization source		Select voltage , current, or the entire period of the data updata interval for the signal used to achieve synchronization during measurement.
Line filter		Select OFF or ON (cut off frequency at 500 Hz)
Peak measurement		Measures the peak (max, min) value of voltage, current or power from the instantaneous current or instantaneous power that is sampled.

Frequency Measurement

Item	Specifications	
Measurement item	Voltage or current frequencies applied to one selected input element can be measured	
Frequency test range	Vaties depending on the data update interval (see description given later) as follows	
	Data update interval	Measurement range
	0.1 s	25 Hz ≤ f ≤ 100 kHz
	0.25 s	10 Hz ≤ f ≤ 100 kHz
	0.5 s	5 Hz ≤ f ≤ 100 kHz
	1 s	2.5 Hz ≤ f ≤ 100 kHz
	2 s	1.5 Hz ≤ f ≤ 50 kHz
	5 s	0.5 Hz ≤ f ≤ 20 kHz
Frequency filter	Select OFF or ON (cut off frequency of 500 Hz)	
Accuracy	Requirements : When the input signal level is 20 % or more of the measurement range and the crest factor is set to 3 (40 % or more if the crest factor is set to 6).	

Harmonic Measurement

Measured item	All installed elements
Method	PLL synchronization method
Frequency range	Fundamental frequency of the PLL source is in the range of 10 Hz to 1.2 kHz
PLL source	Select voltage of current of each input element
FFT data length	1024

	Name	Symbols and Meanings	
measurement parameter	Voltage (V)	U(k) : voltage effective value of Kth harmonic	U(Total) : voltage effective value
	Current (A)	I(k) : curent effective value of Kth harmonic	I(Total) : curent effective value
	Active power (W)	P(k) : active power of Kth harmonic	P(Total) : Active power
	Apparent power (VA)	S(k) : apparent power of Kth harmonic	S(Total) : total apparent power
	Reactive power (var)	Q(k) : reactive power of Kth harmonic	Q(Total) : total reactive power
	Power factor	λ(k) : power factor of Kth harmonic	λ(Total) : Total power factor
	Phase difference	φ(k) : phase difference between voltage and current of Kth harmonic φU(k) : voltage phase difference between Kth harmonic(UK) and fundamental wave(U1) φI(k) : current phase difference between Kth harmonic(IK) and fundamental wave(I1)	φ:total phase difference
	Harmonic distortion factor(%)	Uhdf(k) : Voltage ratio of Kth harmonic(Uk) and fundmental wave(U1) current Ihdf(k) : ratio of Kth harmonic（Ik) and fundmental wave(I1) active power Phdf(k) : ratio of Kth harmonic(Pk)and fundmental wave (P1)or total distortion wave(Ptotal) or Total distortion wave(Itotal) or total distortion wave(Utotal)	
	(THD) total harmonic distortion	Uthd : voltage ratio of total harmonic and fundmental wave(U1) or total distortion wave(Utotal). Ithd : current ratio of total harmonic and fundmental wave(I1) or total distortion wave(Itotal). Pthd : active power ratio of total harmonic and fundmental wave(P1) or total distortion wave(Ptotal)	
Window function	Rectangle		

Note
- This function is only available for IT9121, optional function for IT9121E.
- K is a integer from 0 to upper limit of harmonic analyse times. 0th means DC parameter.
- User can configure the maximum number of harmonic times manually or auto-decided by equipment, taking the minmum value between the two methods.
- IT9121 can measure up to 50th harmonic.

Fundamental Frequency

Fundamental frequency	Sample rate	Window width	Upper limit of* analysis orders
10 Hz ~ 75 Hz	f * 1024	1	50
75 Hz ~ 150 Hz	f * 512	2	32
150 Hz ~ 300 Hz	f * 256	4	16
300 Hz ~ 600 Hz	f * 128	8	8
600 Hz ~ 1200 Hz	f * 64	16	4

* the upper limit of analysis orders can be decreased

Accuracy

* When line filter is off, the accuracy shown below is the sum of reading and range errors

Frequency	Voltage	Current	Power
10 Hz ≤ f < 45 kHz	0.15%of reading +0.35%of range	0.15%of reading +0.35%of range	0.15%of reading +0.50%of range
45 Hz ≤ f ≤ 440 kHz	0.15%of reading +0.35%of range	0.15%of reading +0.35%of range	0.20%of reading +0.50%of range
440 Hz < f ≤ 1 kHz	0.20%of reading +0.35%of range	0.20%of reading +0.35%of range	0.40%of reading +0.50%of range
1 kHz < f ≤ 2.5 kHz	0.80%of reading +0.45%of range	0.80%of reading +0.45%of range	1.56%of reading +0.60%of range
2.5 kHz < f ≤ 5 kHz	3.05%of reading +0.45%of range	3.05%of reading +0.45%of range	5.77%of reading +0.60%of range

Interface
- USB
- GPIB
- Ethernet
- RS232

Simulation interface monitoring cable

IT-E161
0-10V input/output, simulation interface cable for monitoring and setting, used to control and read back power status
Applicable model:
IT6100 series

Digital interface monitoring cable

IT-E162
Digital interface cable for monitoring and setting, it can use digital port to control power output state, especially suitable for industrial application.
Applicable model:
IT6100 series

IT-E163
0-10V input/output, simulation interface cable for monitoring and setting, used to control and read back load status
Applicable model:
IT8500 series

Test line

IT-E301/10A

IT-E301/240A
IT-E301/120A

IT-E30110-AB	10A / 1m / Alligator clips - Banana plugs A pair of red and black test line
IT-E30110-BB	10A / 1m / Banana plugs - Banana plugs A pair of red and black test line
IT-E30110-BY	10A / 1m / Banana plugs - Y-type terminals A pair of red and black test line
IT-E30312-YY	30A / 1.2m / Y-type terminals - A pair of red and black test line
IT-E30320-YY	30A / 2m / Y-type terminals - A pair of red and black test line
IT-E30615-OO	60A/ 1.5m / Ring terminals - A pair of red and black test line
IT-E31220-OO	120A / 2m / Ring terminals - A pair of red and black test line
IT-E32410-OO	240A / 1m / Ring terminals - A pair of red and black test line
IT-E32420-OO	240A / 2m / Ring terminals - A pair of red and black test line
IT-E33620-OO	360A / 2m / Ring terminals - A pair of red and black test line

Quick Charger Controller

IT-E255A
Application models: IT8500+ series

IT-E255M
Application models: IT8500+, IT8800, IT8700

GPIB communication cable

IT-E133
GPIB communication cable, support SCPI protocol
Applicable model:
IT6800 series

IT-E134
GPIB communication cable, support SCPI protocol
Applicable model:
 IT8500 series

IT-E135
GPIB communication cable, support SCPI protocol
Applicable model:
IT6100 series, IT6322

Optional Accessories

Optional keyboard

IT-253 Keyboard
Help IT8500 series electronic load to complete Auto-test function
Applicable model:
IT8500 series

IT-254
Keyboard
Coordinating IT8500+ series electronic load to realize automatic testing function
Applicable model:
IT8500+ series

1/2 2UDouble units installation picture

Rack shelves kit

IT-E152 Rack mount kit
Applicable models: IT8200 and IT6700 series

IT-E153B Rack mount kit
Applicable models: IT8700 series

Communication interface

IT-E121 RS232 Communication interface, with RS232 standard communication cable
IT-E122 USB Communication interface, with USB standard communication cable
Applicable models: IT6100, IT6800, IT6322, IT6302, IT8500+, IT8500

IT-E123 RS485 Communication interface, with RS485 interface
Applicable models: IT8500+, IT8500, IT6800, IT6100, IT6322

IT-E151A 19 Rack mount kit
Applicable models: IT6302, IT6932A, IT6900A, IT7321

IT-E601
Pin type lead
Rubber straight plug – Probe
crown round head
Applicable models: IT5100

IT-E602
Large clip type lead
Rubber straight plug – Alligator clips
Applicable models: IT5100

IT-E603
Pin type lead
Rubber straight plug – Probe
double pin plugs
Applicable models: IT5100

IT-E604
Black straight plug - Universal
pen + Alligator clip
Applicable models: IT5100

IT-E605
Zero adjustment board (suitable
for different probe)
Applicable models: IT5100

IT-E181
system fixture
Applicable models: IT9500

Current sensor

IT - E185 (option)
Measuring fixture box (250 V / 15
A), easy wiring test
Applicable models: IT9100

IT-E190-6A (option)
Current sensor
Applicable models:
IT9100, IT9500

IT-E190-15A (option)
Current sensor
Applicable models:
IT9100, IT9500

IT-E190-25A (option)
Current sensor
Applicable models:
IT9100, IT9500

IT-E190-40A (option)
Current sensor
Applicable models:
IT9100, IT9500

IT-E190-60A (option)
Current sensor
Applicable models:
IT9100, IT9500

Optional Accessories

ITECH ELECTRONICS
Your Power Testing Solution

ITECH is selling model list

DC electronic load

IT8500+ Programmable DC Electronic Load — P05

Model	Specification
IT8511A+	150V/30A/150W
IT8511B+	500V/10A/150W
IT8512A+	150V/30A/300W
IT8512B+	500V/15A/300W
IT8512C+	120V/60A/300W
IT8512H+	800V/5A/300W
IT8513A+	150V/60A/400W
IT8513C+	120V/120A/600W
IT8514B+	500V/60A/1500W
IT8514C+	120V/240A/1500W
IT8516C+	120V/240A/3000W

IT8200 Digital Control DC Electronic Load — P11

Model	Specification
IT8211	60V/30A/150W

IT6700 DC Power Supply — P13

Model	Specification
IT6720	60V/5A/100W
IT6721	60V/8A/180W

IT6300A Triple Channels DC Power Supply — P15

Model	Specification
IT6322A	30V/3A/90W*2CH
	5V/3A/15W*1CH
IT6332A	30V/6A/180W*2CH
	5V/3A/15W*1CH
IT6333A	60V/3A/180W*2CH
	5V/3A/15W*1CH

IT6302 Triple Channels DC Power Supply — P17

Model	Specification
IT6302	30V/3A/90W*2CH
	5V/3A/15W*1CH

DC Power Supply

IT6500 Wide-range High-power DC Power Supply — P18

Model	Specification
IT6502D	80V/60A/800W

IT6900A Wide-range Programmable DC Power Supply — P21

Model	Specification
IT6922A	60V/5A/100W
IT6932A	60V/10A/200W
IT6933A	150V/5A/200W
IT6942A	60V/15A/360W
IT6952A	60V/25A/600W
IT6953A	150V/10A/600W

IT6860A Dual-range Programmable DC Power Supply — P24

Model	Specification	
IT6861A	20V/5A/100W	8V/9A/72W
IT6862A	32V/3A/96W	12V/6A/72W
IT6863A	72V/1.5A/108W	32V/3A/96W
IT6872A	35V/4A/140W	15V/7A/105W
IT6873A	75V/2A/150W	32V/4A/128W
IT6874A	150V/1.2A/180W	60V/2A/120W

IT6100B High Accuracy Programmable DC Power Supply — P27

Model	Specification
IT6121B	20V/5A/100W
IT6122B	32V/3A/96W
IT6123B	72V/1.2A/86W
IT6132B	30V/5A/150W
IT6133B	60V/2.5A/150W

AC Power Analyzer

IT7300 Programmable AC Power Supply — P29

Model	Specification
IT7321	300V/3A/300VA

Power Analyzer

IT9100 Power Analyzer — P34

Model	Specification
IT9121E	600V/20A

Selection Guide

Your Power Testing Solution

ITECH

China

TEL:+86-25-52415098

FAX:+86-25-52415268

E-mail:info@itechate.com

ADD:108# XiShanqiao Nanlu,
Nanjing city,China

Taiwan

TEL: +886-3-6684333

E-mail:taiwan@itechate.com.tw

ITECH Web