

Basic Product Catalog

ITECH-Your Power Test Solution

www.itechate.com

About ITECH ELECTRONICS





About ITECH

ITECH is devoted to research and development in power supply technologies in test and measurement. The company specialized over the years and it is skilled in producing high power electronic testing systems, high-performance automated testing systems, power supplies and electronic loads. Our products are widely used by enterprises in all fields. Our products are well known for high performance and quality which are exported to over twenty countries in Europe, North America and Asia.

Quality Policy

ITECH will keep on researching and developing new products to satisfy the diversified application requirements, and supplying perfect quality for your needs through continuous improvements.

Marketing And Service

ITECH market and service cover over thirty contries in Europe, North America and Asia etc. We will supply the best products together with the best after-sale service for you.

Vision

The mission of ITECH is to serve the customer requirements. ITECH will be continuously devoted to researching and manufacturing power supplies and power supply testing products, and supply to you high quality products and the best after sale service support through its excellent technology and marketing network .ITECH will be one of your preferred suppliers .

Our Customer

ITECH products are widely preferred by customers for the reputation, performance and quality. Our customers including famous companies and institutions in worldwide, such as ABB, Bosch, Intel, LG, Nokia, Siemens, Sony, Fuji, Volkswagen, Ford, Delta, Samsung, BMW, Logic and Foxconn etc.

ITECH provides best solution with our continuous research and creativity.

ITECH has excellent agency and service points in worldwide. If you need local service, please visit www.itechate.com or contact us directly.



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Selection Guide

For other languages version catalog, please contact us. 如需中文目录,请与我们联系 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

P40



		Spe	cificatio	ns		App	licatio	ns	
Products	Page	Voltage	Current	Power	*	3	8	ŭ	æ
		Max.	Max.	Max.	40=0		Ψ	U	100
Basic Products									
DC Electronic Loads									
IT8500+ Single Channel Electronic Load	P04-P09	500V	240A	3000W		<u>*</u>	8	ð	æ
IT8211 Economic Electronic Load	P10	60V	30A	150W	*	3	8	T	€
DC Power Supplies									
IT6700 Digital Control Power Supplies	P12-P13	60V	8A	180W	*	3	•	T	€
IT6300&IT6300A Triple Output Power Supplies	P14-P16	60V	3A	180W	*			T	€
IT6500 Auto-range Power Supplies	P17-P20	80V	60A	800W	*	3	8	T	æ
IT6900A/B Multi-function Power Supplies	P21-P23	150V	25A	600W	*	7	8	T	€ E
IT6860A/B & IT6870A/B Power Supplies	P24-P25	150V	15A	180W		<u>\$</u>	8	T	æ
IT6120B High Speed And High-accuracy Programmable DC Power Supply	P26-P27	72V	5A	150W	*			T	@
AC Power Supplies									
IT7321 AC Power Supplies	P28-P32	300V	6A	750VA	*	<u>*</u>	8	ď	€
Power Analyzers									
IT9121E Power Analyzers	P33-P36	600V	20A		*	<u>\$</u>	8	T	€
Optional Accessories									
Optional Accessories	P37-P39								
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Basic Products

DC ELECTRONIC LOAD

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

Not all the tests require high precision, as ITECH basic series of electronic loads, IT8500+ and IT8200 are stable, affordable and high-value fit.

IT8500+ Single Channel 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. P04-P09

IT8211 Economic Electronic Load

IT8211 is equipped with CC/CV/CR mode which can be applied in production-line testing, burn-in testing, maintaining and so on. P10





Features

- Highlight VFD display
- Dynamic mode:up to 10kHz
- Resoulution of voltage and current: 0.1 mV / 0.1 mA
- Four working modes: CV/CC/CR/CP
- Remote sensing function
- Battery test, automatic test, OPP test, OCP test funcitions. The load will default in the specified mode when turn it on.
- Storage for 100 sets
- Short-circuit function
- Test function
- Current monitoring function
- Power off memory function
- With rotary coding switch to make an easy operation
- Portable strong case equipped with non-slip feet
- Intelligent fans cooling
- Built-in Buzzer function

Single Channel DC Electronic Load

IT8500+ series is a single-channel programmable electronic load . With power ranges from 150W to 3000W . The user can perform online voltage measurements and adjustments or simulate short circuit test using the simple keypad on the front panel . It also offers a full - featured battery mode for discharging test . IT8500+ series DC loads are a versatile instrument for static and dynamic testing of power supplies , batteries , DC - DC converters , battery chargers , provides user the best testing solution.

Constant Current (CC)

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

Constant Voltage (CV)

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

Constant Resistance (CR)

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

Constant Power (CP)

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

Model	Voltage	Current	Power
IT8511A+	150 V	30 A	150W
IT8512A+	150 V	30 A	300W
IT8512B+	500 V	15 A	300W
IT8512C+	120 V	60 A	300W
IT8512H+	800 V	5A	300 W
IT8513C+	120 V	120 A	600W
IT8514B+	500 V	60 A	1500W
IT8514C+	120 V	240 A	1500W
IT8516C+	120 V	240 A	3000W

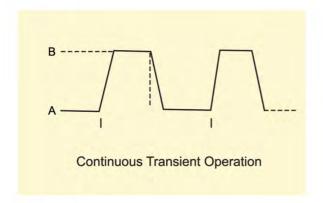
^{*}Note:IT8514C+and IT8516C+have RS232 and USB interface

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.

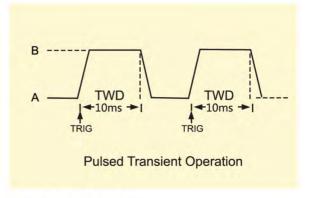
Continuous Mode

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.



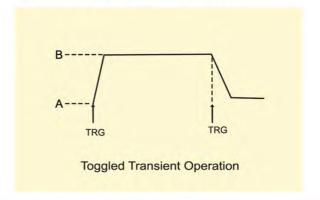
■ Pulse Mode

In pulse mode, the electronic load generates a transient pulse of programmable width when pulse transient operation is in e ffect. 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.



■ 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.



Automatic Test Function

The automatic test function of the IT8500+ series electronic load is useful for simulating various tests and allows the user to edit up to 10 groups of testing files. Each file has 10 steps and up to 100 files can be edited and saved into the EEPROM.

User can also set the default power-up mode to be automatic test. It improves the productivity and automatically judge the product quality.

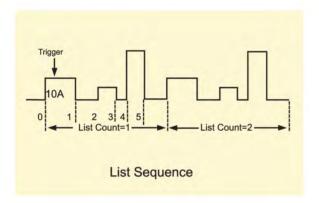
Test steps		Test methods			
	Mode	Voltage (V)	Current (mA)	Power(W)	Ripple wave range
Step 1	CC	5.8~6.15	210	<4	
Step 2	no-load	5.9~6.4	0	<1.2	<50mVpp
Step 3	short circuit	0	<245		
Step 4	CV	5	205~245		



List Mode

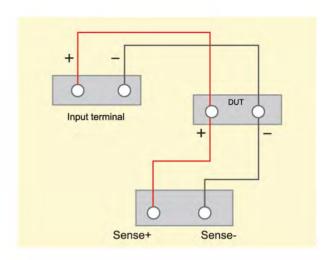
List mode allows you to generate a complex current sequence. Moreover, the mode change can be synchronized with an internal or external singal, to accomplish dynamic and precise test which can save cost for users.

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 (0.00002s-3600s), step value and slope. The edited list file can be recalled easily. The DC load provides 7 nonvolatile regisers to save list files setting for recall later. In the list mode, the DC start to run the list file once receiving a trigger signal, continue to run until end of the operation or receiving another trigger.



Remote Sense

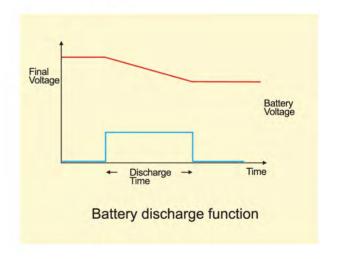
When working in CC, CV, CP and CR mode, if the electronic load consumes a very large current, it will cause a voltage drop in the leads between the connected device and terminals of the electronic load. In order to ensure testing accuracy, the electronic load provides a pair of remote sensing terminals 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.



Battery Mode

A battery test mode is provided that will measure the ampere*hour (A*hr) characteristic of a battery. It measures the time it takes for a battery voltage to drop to a specified value while drawing a constant current from the battery.

There are three stop conditions for IT8500+ series loads: Time, capacity and voltage. In addition, user can make any combination of stop conditions to achieve "And", "Or" relationship. When one or more stop conditions are satisfied, the test is ended and the discharging time, capacity in ampere*hours (A*hrs) of the battery is calculated and displayed on the front panel.

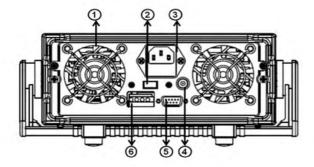




IT8511+ / IT8512+ / IT8512B+ Specification

	IT8511+			IT8512+		IT8512B+	
Input Rating	Voltage	0 ~ 120 V		0 ~ 1:		0 ~ 500	
	Current	0~3A	0 ~ 30 A	0~3A	0 ~ 30 A	0~3A	0 ~ 15 A
(0~40℃)	Power		0 W	300 W		300 V	
	Minimum operating voltage	0.14V at 3A	1.4 Vat 30A	0.12V at 3A	1.2V at 30A	0.6V at 3A	3V at 15 A
CV Mode	Range	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V	0 ~ 50 V	0 ~ 500 V
	Resolution	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV
	Accuracy	± (0.05%+0.02%FS)	± (0.05%+0.025%FS)	± (0.05% +0.02%FS)	± (0.05%+0.025%FS)	± (0.05% +0.02%FS)	± (0.05% +0.025%F
CC Mode	Range	0~3A	0 ~ 30 A	0~3A	0 ~ 30 A	0~3 A	0 ~ 15 A
	Resolution	0.1 mA	1 mA	0.1 mA	1 mA	0.1 mA	1 mA
	Accuracy			± (0 05%+0 0	5%FS)		
CR Mode	Range	0.05 Ω ~ 10 Ω	10 Ω ~ 7.5 KΩ	0.05 Ω ~ 10 Ω	10 Ω ~ 7.5 KΩ	0.3 Ω ~ 10 Ω	10 Ω ~ 7.5 KΩ
	Resolution			16bit			
	Accuracy	0.01%+0.085	0.01%+0.0008S	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08S	0.01%+0.0008S
CP Mode	Range		150 W	300 W		300 W	
	Resolution			10m W			
	Accuracy	0.1 % + 0	.1 % FS	0.1 %	+ 0.1 % FS	0.1 % + 0.1	% FS
				Dynamic mode			
	200000	CC	mode	CC mode	ALC: NO.	CC me	ode
Dynamic Mode	T1&T2			50 µS~3600S	Res:1uS		
	Accuracy			5 µS ± 1	00 ppm		The state of the s
	Rising / Falling Slope	0.0001~0.3A/µS	0.001~1.5A/µS	0.0001~0.3A/µS	0.001~1.5A/µS	0.0001~0.3A/µS	0.001~0.8A/µS
				Measurement			
V Measurement	Range	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V	0 ~ 50 V	0 ~ 500 V
T HIGH THE TANK	Resolution	0.1 mV	1 mV	0.1 mV	1 mV	1 mV	10 mV
	Accuracy			± (0.025 °	% + 0.025 % FS)		
C Measurement	Range	0~3A	0 ~ 30 A	0~3A	0 ~ 30 A	0~3A	0 ~ 15 A
	Resolution	0.1 mA	1 mA	0.1 mA	1 mA	0.1 mA	1 mA
	Accuracy	The state of the s			+ 0.05 % FS)		
P Measurement	Range	150	w	300 W		300 W	
1 Mododromorie	Resolution	100	STATE OF THE PARTY	10 m			
	Accuracy	+ (0.1% -	± (0.1 % + 0.1 % FS) ± (0.1 %		% FS)	± (0.1 % + 0	1 % FS)
	ricodiacy	1 (0.1 70	0.1 /01 07	Protection		1 (0.1 % . 0	.1 7010)
	Over power protection	≈16	OW	≈320 W	range	≈320W	
	Over current protection	≈3.3 A	≈33 A	≈3.3 A	≈33 A	≈3.3 A	≈16 A
	Over voltage protection	~3.3 A		≈125 V	≈33 A		~10 A
	Over temperature protection			≈85°C		≈530 V ≈85°C	
	Over temperature protection				tion	~65 C	
Chart Circuit	C+(CC)	≈3.3/3A	≈33/30 A	Specifica ≈3.3/3 A	≈33/30 A	≈3.3/3A	≈16/15A
Short Circuit	Current(CC)	~3.3/3A	-33/3UA	1,515,505	~33/30A	~3.3/3A	~ 10 / 10 M
	Voltage(CV)	- 47	0	0V		100 0	
	Resistance(CR)	≈45	mΩ	≈40 mΩ		≈ 180 mΩ	
D:	Input impedance		044.5	150 ΚΩ		0445	- +000
Dimension (W*D*F	H)		214.5 mm * 354.	6 mm * 88.2 mm		214.5 mm * 354.	6 mm * 88.2 mm

IT8511A+ / IT8511B+ / IT8512B+ / IT8512C+ / IT8512H+ / 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

08 IT8500+ Electronic Load



IT8512C+ / IT8513C+ / IT8514C+ Specification

Input Rating	Voltage	0 41					
	Voltage	0 ~ 12	20 V	0 ~ 120V			
	Current	0~6A	0 ~ 60 A	0 ~ 12 A	0 ~ 120 A	0 ~ 24 A	0 ~ 240 A
(0~40°C)	Power	300	W	6	00 W	1500	
	Minimum operating voltage	0.25V at 6A	2.5V at 60A	0.2V at 12A	2V at 120A	0.25V at 24A	2.5V at 240A
CV Mode	Range	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V
	Resolution	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV
	Accuracy	± (0.05% +0.02%FS)	± (0.05%+0.025%FS)	± (0.05% +0.02%F	$\pm (0.05\% + 0.025\% FS)$	± (0.05% +0.02%FS)	± (0.05% +0.025% F
CC Mode	Range	0~6A	0 ~ 60 A	0 ~ 12 A	0 ~ 120 A	0 ~ 24 A	0 ~ 240 A
	Resolution	0.1 mA	1 mA	1 mA	10 mA	1 mA	10 mA
	Accuracy			±(0.05%	+0.05%FS)		
CR Mode	Range	0.05 Ω ~ 10 Ω	10 Ω ~ 7.5 ΚΩ	0.05 Ω ~ 10 Ω	10 Ω ~ 7.5 ΚΩ	0.05 Ω ~ 10 Ω	10 Ω ~ 7.5 ΚΩ
	Resolution			16	bit		
	Accuracy	0.01%+0.085	0.01%+0.0008S	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08S	0 01%+0 0008S
CP Mode	Range	30	0 W	60	00 W	1500	O W
	Resolution			10	0 mW		
	Accuracy	0.1 %	+ 0.1 % FS	0.2 % + 0	.2 % FS	0.2 % -	+ 0.2 % FS
			Dyr	amic mode			
		CC mo	de	CC mod	le	CC m	ode
Dynamic Mode	T1&T2	20 µS~360	00S / Res:1 µS	100µS~3600	S / Res:1 µS	100µS~3600	S / Res: 1 µS
	Accuracy	2 µS :	± 100 ppm	10 µS ±	100 ppm	10 µS ±	100 ppm
	Rising / Falling Slope	0.0001~0.3 A / µS	0.001~3A/µS	0.001~0.2A / µ	S 0.01~1.6A / µS	0.001~0.3A / µS	0.01~3.2A / µS
				Measu	rement range		
V Measurement	Range	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V	0 ~ 18 V	0 ~ 120 V
	Resolution	1 mV	10 mV	0.1 mV	1 mV	0.1 mV	1 mV
	Accuracy			± (0.025 %	+ 0.025 % FS)	± (0.025 %	% + 0.025 % FS)
C Measurement	Range	0~6A	0 ~ 60 A	0 ~ 12 A	0 ~ 120 A	0 ~ 24 A	0 ~ 240 A
	Resolution	0.1 mA	1 mA	1 mA	10 mA	1 mA	10 mA
	Accuracy			± (0.05%	+0.05%FS)	±(0.05%+	-0.05%FS)
P Measurement	Range	300	W	60	WO	1500	W
	Resolution		The second second	10	mW	1000	
	Accuracy	± (0.1 % +	0.1 % FS)	± (0.2 %	6 + 0.2 % FS)	± (0.2 %	+ 0.2 % FS)
				Protection range		2 (0.2 /0 / 0.2 /0 / 0/	
	Over power protection	≈32	20 W		620 W	≈1500	W
	Over current protection	≈6.5 A	≈ 65 A	≈13 A	≈130 A	≈26.7 A	≈267 A
	Over voltage protection			≈1	25V		
	Over temperature protection	≈85°C		≈ 95		≈85	C
					ification		
Short Circuit	Current(CC)	≈6.5/6 A	≈65/60A	≈13/12A	≈130/120A	≈26.7/24A	≈267/240 A
J. J	Voltage(CV)			0V	100000000000000000000000000000000000000		
	Resistance(CR)	≈40	mΩ		mΩ	≈8 mΩ	≈8 mΩ
				≈15 mΩ			
	Input impedance	401		150ΚΩ			

IT8511A+ / IT8512A+ / IT8512H+ Specification

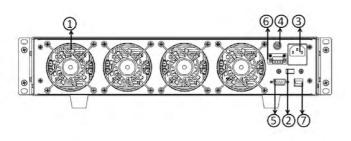
		IT8511		IT8512A		IT851		
Input Rating	Voltage	0~150	V	0~150	V	0~80	0 V	
	Current	0~3 A	0~30 A	0~3 A	0~30 A	0~1 A	0~5 A	
(0~40°C)	Power	150 W	/	300 W		300	W	
	Minimum operating voltage	0.3 V at 3 A	3 V at 30 A	0.14 V at 3 A	1.4V at 30 A	1.4 V at 1 A	7 V at 5 A	
CV Mode	Range	0.1~18 V	0.1~150 V	0~18 V	0~150 V	0~80 V	0~800 V	
	Resolution	1 mV	10 mV	1 mV	10 mV	1 mV	10 mV	
	Accuracy	±(0.05%+0.0	25% FS)	± (0.05%+0.02% FS)	± (0.05%+0.025% FS)	± (0.05%+0	0.05% FS)	
CC Mode	Range	0~3 A	0~30 A	0~3 A	0~30 A	0~1 A	0~5 A	
	Resolution	0.1 mA	1 mA	0.1 mA	1 mA	0.1 mA	1 mA	
	Accuracy	± (0.05%+0.0)5% FS)	±(0.05%+0.0	5% FS)	±(0.05%+	0.1% FS)	
CR*1 Mode	Range	0.1Ω~10Ω	10Ω~7.5 ΚΩ	0.05Ω~10Ω	10Ω~7.5 ΚΩ	2Ω~10Ω	10Ω~7.5 ΚΩ	
	Resolution	16 bit		16 bit		161	pit	
	Accuracy	0.01%+0.08 S*2	0.01%+0.0008 S	0.01%+0.08 S	0.01%+0.0008 S	0.01%+0.08 S	0.01%+0.000	
CP*1 Mode	Range	150 W	V	300 W		300		
	Resolution	10 mV	V	10 mW		10 mW		
	Accuracy	0.2%+0.29		± (0.1%+0.1		0.2%+0.		
				Dynamic m				
	1000			CC mod				
Dynamic Mode	T1&T2	20µS~3600 S/	Res:1uS	20µS~3600 S/		20µS~3600 \$	S/ Res:1uS	
- January 1970	Accuracy	2µS+100		2µS+100 ;		2µS+10		
	Rising/falling slope *3	0.0001~0.1		0.0001~0.2 A/µS	0.001~1.5 A/µS	0.0001~0.04 A/µS	0.001~0.2 A/L	
	Minimum rising time *4	≈20µS	≈30uS	0.0001 0.270µ0	0.001 1.070µ0	0.0001 0.0470µ0	0.001 0.270	
	The state of the s			Measuremen	trance			
V Measurement	Range	0~18 V	0~150 V	0~18 V	0~150 V	0~80 V	0~800 V	
* Mododromorit	Resolution	0.1m V	1m V	0.1m V	1m V	1m V	10m V	
	Accuracy	±(0.05%+0.0		± (0.025%+0.0		± (0.025%+0		
C Measurement	Range	0~3 A	0~30 A	0~3 A	0~30 A	0~1 A	0~5 A	
O Milododromorit	Resolution	0.1 mA	1 mA	0.1 mA	1 mA	0.1 mA	1 mA	
	Accuracy	±(0.05%+0.0		± (0.05%+0.0		±(0.05%+0		
P Measurement	Range	150W		300W	2. No. 10. 12. 12. 1	300		
1 Mododromone	Resolution	10mV		10mW		10mW		
	Accuracy	± (0.2%+0.2		± (0.1%+0.1% FS)		± (0.2%+0.2% FS)		
	7 local doy	1 (0.270.0.2	,,,,,,	Protection		1 (0.270.0	.27010)	
OPP		≈160V	V	≈320W		≈320	ואו	
OCP		≈3.3 A	×3.3 A	≈3.3 A	≈33 A	≈1.1 A	≈5.5 A	
OVP		≈160 \		≈160 V		≈850		
OTP		≈ 85°C		≈85°C		≈ 85		
OII		- 00 (,	Specificat		- 00		
Short Circuit	Current(CC)	≈3.3/3A	≈33/30A	≈3.3/3A	≈33/30A	≈1.1/1A	≈5.5/5A	
Onort Oncult	Voltage(CV)	-3.3/3A	-00/00A	-5.5/5A	-30/307	01		
	Resistance(CR)		-0					
	Input impedance	≈ 100 m ≈ 300 K		≈40 mΩ ≈150 Ki		≈1.4 ≈2 N		
2 2000mm m = 1	input impedance	The state of the s						
mension (W*D*H)		214.5mm*88.2mi	m-354.6mm	214.5mm*88.2mn	1°354.6mm	214.5mm*88.2r	mm^354.6mm	

IT8514B+ / IT8516C+ Specification

	VI.		514B+		516C+		
Input Rating	Voltage		500 V		120 V		
	Current	0~6 A	0~60 A	0~24 A	0~240 A		
(0~40℃)	Power		00 W		00 W		
	Minimum operating voltage	0.25 V at 6 A	2.5 V at 60 A	0.15 V at 24 A	1.5V at 240 A		
CV Mode	Range	0.1~50 V	0.1~500 V	0.1~18 V	0.1~120 V		
	Resolution	1 mV	10 mV	1 mV	10 mV		
	Accuracy	±(0.05%+0.02% FS)	±(0.05%+0.025% FS)	± (0.05%+0.02% FS)	±(0.05%+0.025% FS)		
CC Mode	Range	0~6 A	0~60 A	0~24 A	0~240 A		
	Resolution	1 mA	10 mA	1 mA	10 mA		
	Accuracy	± (0.05%+			+0.1% FS)		
CR Mode*1	Range	0.05Ω~10Ω	10Ω~7.5 ΚΩ	0.05Ω~10Ω	10Ω~7.5 KΩ		
	Resolution	16	bit	16	3 bit		
	Accuracy	0.02%+0.08 S	0.01%+0.0008 S	0.02%+0.08 S	0.02%+0.0008 S		
CP Mode*1	Range	150	00 W	30	000 W		
	Resolution	10	mW	10) mW		
	Accuracy	± (0.2%+	-0.2% FS)	± (0.2%+0.2% FS)			
			Dy	namic mode			
				CC mode			
Dynamic Mode	T1&T2	100µS~360	0 S/ Res:1µS		0 S/ Res:1µS		
	Accuracy		100 ppm		100 ppm		
	Rising/falling slope *3	0.001~0.15 A/µS	0.01~0.8 A/µS	0.001~0.3 A/µS	0.1~2.8 A/µS		
	Minimum rising time *4		00 µS		0 uS		
	William Houng time 3		31 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	surement range	о до		
V Measurement	Range	0~50 V	0~500 V	0~18 V	0~120 V		
V WGasurement	Resolution	0.1 m V	1 m V	0.1 m V	1 m V		
	Accuracy	0.1111 V	± (0.025%+0.0		7.111 V		
C Measurement	Range	0~6 A	0~60 A	0~24 A	0~240 A		
Civieasurement	Resolution	1 mA	10 mA	1 mA			
	Accuracy		-0.05% FS)	± (0.1%+	10 mA		
P Measurement	Range		00W				
Piweasurement	Resolution		mW	3000W			
		10		10mW			
	Accuracy	± (0.2%+0.2% FS)					
			Protecti		e de la constanti		
OPP			50W		3050W		
OCP		≈ 6.7 A	≈ 67 A	≈ 26 A	≈ 260 A		
OVP			30 V		25 V		
OTP		≈ 8			85°C		
				pecification			
Short Circuit	Current(CC)	≈ 6.7 / 6 A	≈ 67 / 60 A	≈ 26 / 24 A	≈ 260 / 240 A		
	Voltage(CV)	0	V	- 0	0 V		
	Resistance(CR)	≈ 30	mΩ	≈ 5	mΩ		
	Input impedance	≈ 150			0 ΚΩ		
mension (W*D*H)		436.5 mm* 88.2	0.7993		6 mm* 463.5 mm		

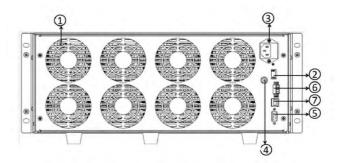
^{*1.}Voltage/Current input ≥10%FS (FS means final scal)

IT8514B+ / IT8514C+



- 1 Air vents
- ② Voltage switch (110V/220V)
- ③ AC line input
- ④ Current monitoring terminal
- ⑤ RS232 interface
- **(6)** Trigger and remote sensing terminal block
- ① USB interface

IT8516C+



- 1 Air vents
- ② Voltage switch (110V/220V)
- 3 AC line input
- ④ Current monitoring terminal
- ⑤ RS232 interface
- 6 Trigger and remote sensing terminal block
- ⑦ USB interface

 $^{^*2.} Resistance\ readback\ value\ range: 1/[1/R+(1/R)^*0.01\%+0.08], 1/[1/R-(1/R)^*0.01\%-0.08], 1/[8514B+/14C+/16C+:1/[1/R+(1/R)^*0.02\%+0.08], 1/[1/R-(1/R)^*0.02\%-0.08], 1/[1/R-(1/R)^*0.01\%-0.08], 1/[1/R-(1/R)^*0.08], 1/[1/R-(1/R)^*0.08], 1/[1/R-(1/R)^*0.08], 1/[1/R-(1/R)^*0.08], 1/[1/R-(1/R)^*0.08], 1/[1/R-(1/R)^*$

^{*3.}Rise/fall slope: rise slope of 10%~90% current rising from 0 to maximum value

^{*4.} Minimum rising time:is the 10%~90% current rising time

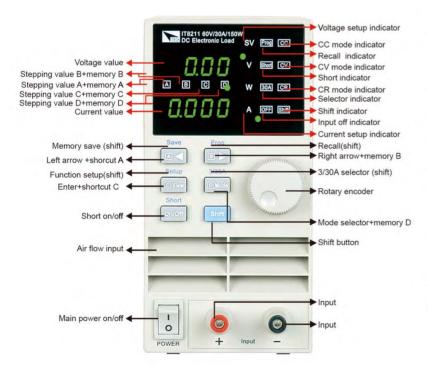


IT8211 Econimic Electronic Load

IT8211 digital-control electronic load (60V/ 30A/150W) 1mV, 1mA, high resolution and high accuracy, can ensure the accurate measurement. CV/CC/CR mode, short-circuit, testing function, easy operation and display interface, built-in 4*40 groups easy access keys, help you to complete all the complex tests easily and rapidly.

Features

- Digital-control electronic load
- 60 V / 30 A / 150 W
- 3 mode: CV/CC/CR
- Highlight LED display
- High accuracy voltage and current measurements
- Standard 19 inch rack mount
- Storage for 4*40 preset value ,can be recalled rapidly
- Rapidly rotary encoder input
- Switch high / low current range: 3 A / 30 A
- The smallest size among similar products





Specifications

		ITE	3211	
Input Rating	Power	150 W		
	Current	30 A		
	Voltage	6	0 V	
CC Mode	Range	0-3A	0-30 A	
	Resolution	1 mA	10 mA	
	Accuracy*1	0.1%+0.1%FS	0.1%+0.15%FS	
CV Mode	Range	_	0-60 V	
	Resolution	_	10 mV	
	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	0-10 V	0-60 V	
	Resolution	1 mV	10 mV	
	Accuracy	0.05%+0.1%FS	0.05%+0.1%FS	
C Measurement	Current	0-3A	0-30 A	
	Resolution	1 mA	10 mA	
	Accuracy	0.1%+0.1%FS	0.1%+0.15%FS	
P Measurement*2	Watt	0-100 W	100-150 W	
	Resolution	10 mW	100 mW	
	Accuracy	1%+0.1%FS	1%+0.1%FS	
Short Circuit	Current(CC)	=	30 A	
	Voltage(CV)	(V	
	Resistance(CR)	≈8	0 mΩ	
Temperature	Operating	0~	40℃	
	Nonoperating	-10℃~60℃		
Dimention	W*H*D	88mm * 175	mm * 282mm	
Weight	Kg	2	2.6	

^{*1:} Accuracy indicates %+n%FS (Full Scale) of the read value or outputs.

^{*2:} While input voltage or current ≥10%FS.



Basic Products

AC/ DC Power Supply

Provide you with the most reliable and accurate power supply.

ITECH providing you with the most reliable and accurate power supply, meet your research and development testing, production testing requirements.

IT6700 Digital control DC Power Supply

The IT6720-series of digital control DC power supplies give you the performance of programmable power supplies without the high price. With the auto-range technology. It offers you the flexible output voltage and current. With high power in a compact unit, the IT6720 series give you excellent performance while saving your space and cost at the same time. P12-P13

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. P14-P16

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, integrated voltage sequence according to DIN 40839. It's the best solution for your laboratory tests, production tests and other applications with small size of 1U. P17-P20

IT6900A/B Multi-function Programmable DC Power Supply

IT6900A/B series power supply adopt auto-range digital technology, enables customers to adjust to the maximum output voltage or current at a fixed power. IT6900A series of power also has the bulit-in RS232/ USB / GPIB communication interface. P21-P23

IT6860A/B & IT6870A/B 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. Its built-in RS232 and USB communication interfaces which can make the communication much faster. P24-P25

IT6120B High Speed And High-accuracy Programmable DC Power Supply

IT6120B (86W~150W) series has fast voltage rising speed and high accuracy. Voltage range 20V~72V, current range1.2A~5A,voltage rising speed (<20mS),high accuracy and resolution of 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. P26-P27

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. Its built-in LAN, USB, RS232 communication interface makes your test efficient. P28-P32

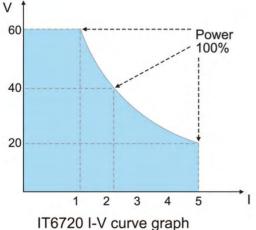


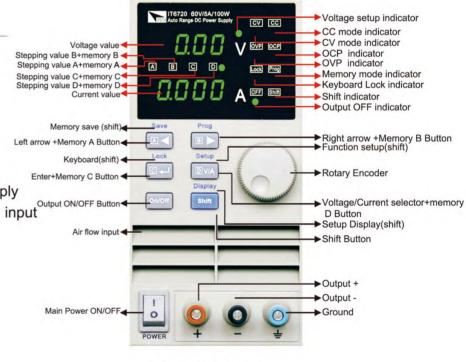
IT6720 Digital Control Power Supply

IT6720 have the widest voltage and current utilization. ITECH introduces the digital-control DC power supply with the highest power ratio in the field, which have the widest voltage and current utilization and greatly widen the range of application. With the capacity of 100W, voltage output of 60V, current output of 5A, they can control the change rates of the voltage and current automatically. The power ratio can be up to 3 times. One IT6720 can substitute previous 60V*1.6A/32V*3A/ 20V*5A 3 kinds of models to save your cost.

Features

- Completely digital-control
- 10mV/1mA high accuracy and resolution
- Low ripple and noise
- CC/CV modes
- Minimum size to save space
- Highlight LED display
- High stability OCP/OVP/OTP protection
- Most economic digital-control power supply
- Full scale 60V/5A, resolution10mV/1mA, input no need to switch
- Switch control for output





Panel Layout

Flexible voltage and current configuration make you complete 100% power output as long as voltage above 20V.



		IT6720	IT6721
Output Rating	Voltage	0 - 60 V	0 - 60 V
	Current	0 - 5 A	0 - 8 A
	Power	100 W	180 W
Load Regulation	Voltage	< 0.01 % + 3 mV	< 0.01 % + 5 mV
	Current	< 0.01 % + 3 mA	< 0.01 % + 5 mA
Line Regulation	Voltage	< 0.01 % + 3 mV	< 0.01 % + 5 mV
	Current	< 0.1 % + 3 mA	< 0.1 % + 5 mA
Programming Accuragy	Voltage	< 0.05 % + 10 mV	< 0.05 % + 10 mV
	Current	< 0.2 % + 2 mA	< 0.3 % + 5 mA
Read back Accuracy	Voltage	< 0.05 % + 10 mV	< 0.05 % + 10 mV
	Current	< 0.1 % + 2 mA	< 0.3 % + 5 mA
Ripple	Voltage	2 mVrms	2.5 mVrms
	Current	3 mArms	3.5 mArms
Dimension	W*H*D	88 * 175 * 282	88 * 175 * 282
Weight	Net	2.5 Kg	3.5 Kg



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



IT-E152 19" Rack Mount Diagram



Features

- Triple output voltage, all are adjustable.
- Support/parallel/tracking mode
- The voltage and current for each channel can be displayed synchronously
- Small size of 1/2 2U
- VFD display
- Function keys with LED light
- Remote sensing function
- Output switch control
- High accuracy, high resolution and high stability
- OVP, OTP
- Intelligent fan control
- Built-in RS232/USB communication interface
- Low ripple and low noise
- Software for monitor
- Support standard SCPI communication protocol
- Memory capacity of 36 groups, for save and recall
- Adjust the stepping by left/right arrow button
- Output timer function(0.1~99999.9 seconds)
- Isolated circuit, support positive and negtive reverse

IT6300A Triple Output DC Power Supply

IT6300 A triple output power supply can adjust the stepping by left/right arrow button, very convenient for your operation.

IT6300A has remote measurement function, it can ensure your testing accurately. And built-in RS232, USB interface, and each channel can set to serial/ parallel/ track mode, it can bring multipurpose testing solution to you.

Triple isolated voltage and current

ь	0.001U	Series	0.0010
¥	O' DOTA	Ottatt	O' OOTA
	0.000A	CH1+2	0.000A

Serial mode

	(2)	001U	(2)	001U	Para
₽	(C) -	DOTA	10.	DOTA	rara
	Ø.	000A	0.	000A	CH2+3
1					

Parallel mode

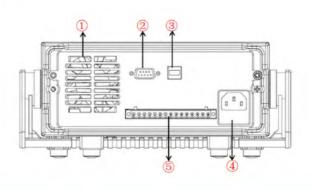
> 0.001V 0.00 ,0.000A ,0.00	
--------------------------------	--

Track mode, set the parameter of one channel, the parameter of other channels will be changed.

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

IT6300A rear panel

- 1 Air vents
- 2 RS232 interface
- ③ USB interface
- 4 AC line input
- 5 Trigger and remote sensing terminal block





Specifications

Parameters		IT6322A	IT6332A	IT6333A		
Output Rating	voltage	$0 \sim 30 \vee 2$, $0 \sim 5 \vee 1$	0~30 V × 2, 0~5 V × 1	$0 \sim 60 \text{V} \times 2$, $0 \sim 5 \text{V} \times 1$		
	current	0~3A × 2, 0~3A × 1	0~6A × 2, 0~3A × 1	0~3A × 2, 0~3A × 1		
	Voltage limiting protection	$0 \sim 31 \vee \times 2$, $0 \sim 6 \vee \times 1$	$0 \sim 31 \text{ V} \times 2$, $0 \sim 6 \text{ V} \times 1$	0~31 V × 2, 0~6 V × 1		
Load Regulation	voltage	≤ 0.01 % + 3 mV	$\leq 0.01\% + 5 \text{ mV (*2)}$	≤ 0.01 % + 3 mV		
	current	$\leq 0.1\% + 3 \text{ mA}$	$\leq 0.01 \% + 3 \text{ mA (* 1)}$	$\leq 0.1\% + 3 \mathrm{mA}$		
Line Regulation	voltage	≤ 0.01 % + 3 mV	≤ 0.01 % + 5 mV (*2) < 0.01 % + 3 mV (*1)	≤ 0.01 % + 3 mV		
	current	$\leq 0.1\% + 3 \text{ mA}$	≤ 0.01%+3mV(*1) ≤ 0.1%+3mA	$\leq 0.1\% + 3 \text{ mA}$		
Setup Resolution	voltage	1 mV	1 mV	1 mV		
	current	1 mA	1 mA	1 mA		
Readback Resolution	voltage	1 mV		1 mV		
	current	1 mA		1 mA		
Setup Accuracy	voltage	≤ 0.03 % + 10 mV	≤ 0.03 % + 10 mV	≤ 0.03 % + 15 mV		
	current	$\leq 0.1\% + 5 \text{ mA}$	≤ 0.1 % +8 mA (*2) ≤ 0.1 % +5 mA (*1)	≤ 0.1 % + 5 mA		
Readback Accuracy	voltage	≤ 0.03 % + 10 mV	≤ 0.03 % + 10 mA	≤ 0.03 % + 10 mV		
	current	$\leq 0.1\% + 5 \text{ mA}$	≤ 0.1 % +8 mA (*2) ≤ 0.1 % +5 mA (*1)	≤ 0.1 % + 5 mA		
Ripple and noise	voltage	≤ 1 mVrms/3 mVp-p	4 mVp-p	5 mVp-p		
	current	≤3 mArms	≤ 5 mArms	≤ 4 mArms		
Temp.coefficient	voltage	≤ 0.03 % + 10 mV	≤ 0.03 % + 10 mV	≤ 0.03 % + 10 mV		
	current	$\leq 0.1\% + 5 \text{ mA}$	$\leq 0.1\% + 5 \text{ mA}$	≤ 0.1%+5mA		
ReadbackTemp.coefficient	voltage	≤ 0.03 % + 10 mV ≤ 0.03 % + 10 mV		≤ 0.03 % + 10 mV		
	current	≤ 0.1 % + 5 mA	≤ 0.1%+5mA	≤ 0.1 % + 5 mA		
Serial synchronous operation	The cascade synchronization error	$\leq 0.05\% + 10 \text{ mA}$				
Series parallel setting accuracy	voltage	≤ 0.02 % + 5 mV				
	current	≤ 0.1 % + 20 mA				
Memory	Save / Recall		36 groups			
Timer	Time setting	0.1 S - 99999.9 S				
	Resolution	0.1 s				
	Function	Timer function for turning off the output				
Dimension	W*H*D	214.5 mm × 88.2 mm × 453.1 mm				

IT6322A adopts new button layout, Local and $\triangleleft \triangleright$ arrow buttons added, function keys with LED light, built-in standard RS232, USB communication interfaces, which makes the communication much faster.

IT6322A supports tracking mode settings. When single channel parameter changed, the other channel parameters will also change iproportionaling at the same time.

Tracking mode

Select tracking mode, CH1 and CH2, CH2 and CH3, or all three channels to be set as tracking mode, if any one channel parameter changed, corresponding that the other channels will also changed in proportionaling. For example, set up voltage and current of CH1 and CH2 to be CH1:4V, 1A; CH2:8V, 2A. Set CH1 and CH2 in tracking mode, in output off and Meter state, VFD will shown as below:



In state, if voltage of CH1 set to be 2V, the voltages of CH2 will automatically synchronize to be 4V (proportionally).





IT6302 Triple Output DC Power Supply

Features

- 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) and OTP(over temperature protection)
- Output on / off control
- 27 memory locations for instrument state storage& recall
- Closed case calibration

■ IT6302 Specifications

		IT6302
Output Ratings (0°C-40°C)	Voltage	0~30 V×2 0~5 V×1
	Current	0~3A×2 0~3A×1
Load Regulation ±(%of output+offset)	Voltage	≤ 0.01 % + 3 mV
	Current	≤ 0.2 % + 3 mA
Line Regulation±(%of output+offset)	Voltage	≤ 0.01 % + 3 mV
	Current	≤ 0.2 % + 3 mA
Programmable Resolution	Voltage	10 mV
	Current	1 mA
Readback Resolution	Voltage	10 mV
	Current	1 mA
Programmming Accuracy (25°C±5°C)	Voltage	\leq 0.06 % + 2 0 mV
(%of output+offset)	Current	≤ 0.2 % + 10 mA
Readback Accuracy (25°C±5°C)	Voltage	≤ 0.06 % + 20 mV
(%of output+offset)	Current	≤ 0.2 % + 10 mA
Ripple and Noise	DMV	≤ 5 mVp - p / 1 mVrms
	DMA	≤ 6 mArms
Temperature (0°C~40°C)(% of output+offset)	Voltage	300 ppm / ℃
	Current	300 ppm / ℃
Temperature coefficient of read back value	Voltage	300 ppm / °C
±(%of output+offset)	Current	300 ppm / °C
Tracking Accuracy Sries Operation	Voltage	\leq 0.5 % + 30 mV
	Current	≤ 0.2 % + 15 mA
Tracking Accuracy Parallel Operation	Voltage	≤ 0.2 % + 30 mV
	Current	≤ 0.2 % + 25 mA
Memory	Storage/recall	27 series



IT6500 Auto-range Programmable DC Power Supply

IT6500 series power supply is single output high-powered and programmable DC power supply which support CC mode and CV mode. The 1200W model has 1U ultrathin body with 1mV, 1mA resolution, the 3000W model outputs adjustable voltage/current value within 80V/120A. In the meanwhile, some models equipped with DIN40839 and ISO-16750-2 standard waveforms. IT6500 provide you with multiple proposal to meet your test demands.

Features

- VFD display
- Achieve max. voltage/current within rated power
- High resolution of 1mV, 1mA
- Low noise and ripple, comparable with linear power supply
- Some models equipped with DIN40839 and ISO-16750-2 standard waveforms
- 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
- Analog control interface
- Remote sensing function
- Intelligent cooling fan to save energy and reduce noise
- List mode

Mode	Voltage	Current	Power
IT6502D	80V	60A	800W



Applications

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

Adjustable Rising and Falling Time Setting

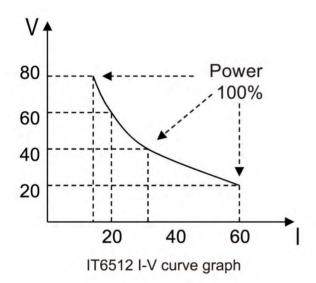
The rising and falling time of IT6500 series power supplies is adjustable. Users can set the transient time of which from one voltage to another voltage. The fastest adjustable time for IT6500 series power supplies can up to 1ms, which can meet most testing requirements.

Models	List Function	Automotive electronics waveform simulation	Master-Slave	External Analog Interfaces	Communication Interfaces
IT6502D	X	X	_	✓	RS232/RS485/USB/GPIB
IT6512	/			✓	RS232/RS485/USB/GPIB
IT6512A	X	X	V	V	RS232/RS485/USB/GPIB
IT6513	X	X	/	✓	RS232/RS485/USB/GPIB/LAN
T6513A	V	✓	V	V	RS232/RS485/USB/GPIB
IT6512D	X	X	/	<u> </u>	RS232/RS485/USB/GPIB



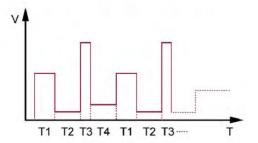
Auto Range Function

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.

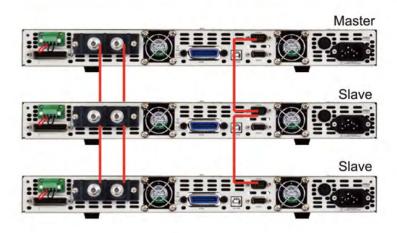


List Mode

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 all the list or receiving trigger signal again.



Master-Slave Operation



Ablove is the graph for Master-Slave operation

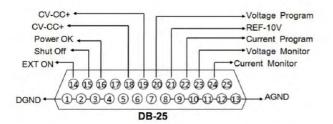
IT6500 series power supplies support Master-Slave parall connection to enlarge the current and power range. Here below is a schematic illustration of Master-Slave connection mode. Output terminals connect in parall, the RS485 interfaces of master and slave connect through directly line. When connect 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 automaticly. Master and Slave connection simplifys the connection and easier to use.

User-friendly Operation Panel Design

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

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,0~10K Ω or 0~5K Ω 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.



Remote Sense Function

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

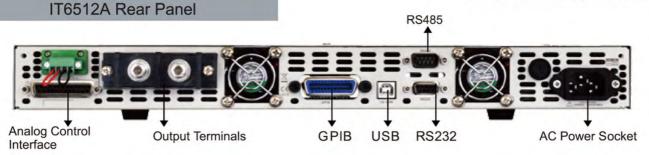
Protection Functions

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 °C. Once the OTP starts, the power supply will stop to output and display "OTP".

IT6500 Specifications

		Basic Products	100000000000000000000000000000000000000	High Performance Products	Annual Control	
Parameters		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%	6+8mV	≤0.05	%+30mV	
	current	≤0.1%	+10mA	≤0.1%	6+30mA	
Line Regulation	voltage	≤0.02%+2mV		≤0.02°	%+20mV	
	current	≤0.02%	6+2mA	≤0.02	%+10mA	
Setup Resolution	voltage	1mV		3	smV	
	current	1n	nA	1	mA	
Readback Resolution	voltage	1n	nV	3	SmV	
	current	1n	nA	1	mA	
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		≤60	mVp-p	
	Irms	≤20m	Arms	≤40n	nArms	
Temp.coefficient	voltage	≤0.02%+30mV		<0.02%+30mV		
	current	≤0.05%+10mA		≤0.05	%+10mA	
Dimension	W*H*D	415mmW*44mmH*500mmD		415mmW*44	mmH*500mmD	
Weight	Kg	8.5	8.5Kg		Kg	

For higher power test, please contact ITECH.





IT6500C/D



High-power single unit is up to 30kW

WIDE RANGE HIGH-POWER DC POWER SUPPLY



Wide-range over 100 models



Continuous source & sink testing



30kW up/down time < 3mS



Fast curves changing without overshoot



Simple

.....

Built-in standard curve

Simple programming on the front panel

IT6500 helps you to overcome the challenges in high power test.



APPLICATIONS

- Aerospace & Aviation
- Military
- Vehicle Battery
- Solar Charger
- Automotive

- Welding & Plating
- R&D
- Motor



Features

- VFD display
- Output on/off control
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution: 1mV/0.1mA
- Low ripple and low noise

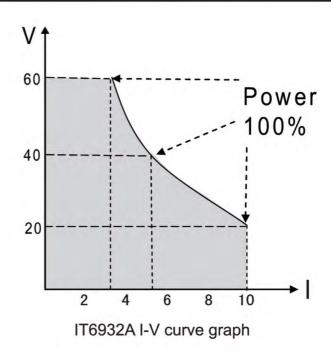
Rack mount kit available

- List Mode: generate, store and execute test sequences without the need for an external computer.
- Built-in communication interface:RS232/USB/GPIB
 Different from IT6900A, IT6900B has the external 0-10V analog interface.
- Output Timer(0.1 ~ 99999.9S) Function
- Remote Sense Function
- OVP/OCP/OTP/LCP protection fucntions
- Intelligent fan control

Model	Model Power		Current
IT6922A	IT6922A 100W		5A
IT6932A	IT6932A 200W		10A
IT6942A	360W	60V	15A
IT6952A	600W	60V	25A
IT6953A	600W	150V	10A

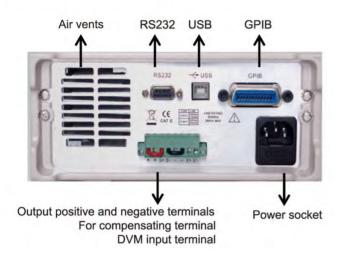
IT6900A /B Multi-function Power Supply

IT6900A series are flexible range single output power supplies. With an easy-to-read VFD display, high accuracy and resolution up to 1mV/0.1mA. It allows to generate and store programmed sequences directly from the front panel. Built-in RS232, USB, GPIB interfaces to provide flexibility for remote operation. IT6900A/B is a compact, laboratory grade power supply well-suited for application in design field, production or use in university labs.



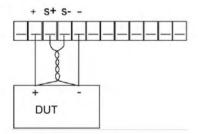


Rear Panel



Remote Sense

Remote sense can be used to compensate for voltage drops (up to 1V) due to resistance from test leads connected to your device under test (DUT), thus providing more accurate output voltage. The power supply is initially setup to local sense mode by default. Refer to the following sections for details of local and remote sense setup.



Built-in DVM

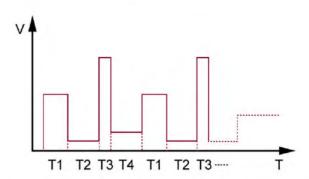
IT6900A provides a built-in digital meter which can measure DC volts in a range from 0.001V-61.000V. The voltage value is displayed on the left bottom field of the display.

Timer Function

IT6900A supports output on timer function.If Timer State is set to ON , then power supply output will turn off after the timer elapsed.

The timer setting range is 0.1~99999.9S

List Mode



List mode allows user to create a sequence of steps, store it into the power supply's non-volatile 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.

Convenient Panel Operation

An easy-to use rotary knob and self-guiding keypads allow you to set the output at your desired value without any effort. Also, both voltage and current levels can be set to a maximum resolution of 1mV/0.1mA. In addition, you can store and recall for up to 9*8 groups setups using the internal non-volatile memory.

Auto-range Function

IT6900A series power supply has adopted Auto-range technology. One unit could replace multiple units with different specifications. Take IT6932A(60V/10A/200W) as an example, the user could used as a 60V/3.3A/200W instruments and also a 20V/10A/200W unit.

Protection Functions

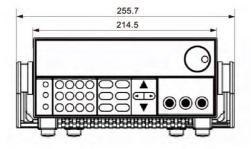
IT6900A series power supply provides OV, OC, OT protection functions. It enables user to configure OVP and OCP value. When any protection level is triggered, power supply will turn off the output automatically.

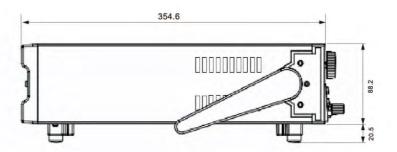


IT6900A Specifications

Parameter		IT6922A	IT6932A	IT6942A	IT6952A	IT6953A
Output Rating value (0 °C~40 °C)	voltage	0 ~60V	0 ~60V	0 ~60V	0 ~60V	0~150V
	current	0~5A	0~10A	0~15A	0~25A	0~10A
	power	100W	200W	360W	600W	600W
Load regulation± (%of output+offset)	voltage	<0.01%+3mV	≤0.01%+5mV	≤0.01%+8mV	≤0.01%+15mV	≤ 0.01%+15mV
	current	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.1%+10mA	≤ 0.05%+10mA
Line regulation ± (%of output+offset)	voltage	<0.01%+3mV	≤0.01%+5mV	≤0.01%+8mV	≤0.01%+15mV	≤ 0.01%+15mV
	current	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.1%+10mA	≤ 0.05%+10mA
Setup resolution	voltage	1mV	1mV	1mV	1mV	1mV(<100V)10mV(>100V)
	current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Readback resolution	voltage	1mV	1mV	1mV	1mV	1mV(<100V)10mV(>100V)
	current	0.1mA	0.1mA	0.1mA(<10A)1mA(>10A)	0.1mA(<10A)1mA(>10A)	0.1mA
Setup accuracy	voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+20mV
(25°C±5°C) ±(%of output+offset)	current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+25mA	≤ 0.1%+25mA
Readback resolution	voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+20mV
(25°C±5°C) ±(%of output+offset)	current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+25mA	≤ 0.1%+25mA
Ripple (20Hz ~20MHz)		≤5mVp-p	≤8mVp-p	≤15mVp-p	≤20mVp-p	≤50mVp-p
		≤5mArms	≤6mArms	≤8mArms	≤15mArms	≤15mArms
Sample rate		10Hz			1	0Hz
Dimension (mm)		214.5r	nmW×88.2mmH×	<354.6mmD	214.5mmW×88	3.2mmH ×445mmD
Weight		7.7Kg			1	5Kg

IT6900A Dimension (Unit: mm)





- IT6932A / IT6942A:214.5mmW×88.2mmH×354.6mmD
- IT6952A / IT6953A :214.5mmW×88.2mmH×445mmD

Standard Accessories

Power Cord	
Calibration Report	
User Manual	



IT6860A/B & IT6870A/B Dual-range Power Supply

IT6860 series are high performance single output dual range programmable DC power supplies. It built-in USB and RS232 interfaces, supporting fast and stabile programming procedures. With high resolution of 1mV/0.1mA. They are designed to meet the needs of R&D design verification, production testing, QA verifications and other applications.



- Dual range ouput
- Bright VFD display
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution
- Low ripple and low noise
- Intelligent fan control, energy conservation, noise reduction
- Output voltage and current values accordance with procedure
- Timer function (0.1~9999.9S)
- Built-in RS232/USB communication interface
- Support SCPI command,compatible IT6800 frame formate protocol

Model	Voltage	Current
IT6861A	20V/8V	5A/9A
IT6862A	32V/12V	3A/6A
IT6863A	72V/32V	1.5A/3A
IT6872A	32V/15V	4A/7A
IT6873A	75V/32V	2A/4A
IT6874A	150V/60V	1.2A/2A

*IT6860B series power supplies have built-in GPIB, RS232 and USB interfaces



IT6860A

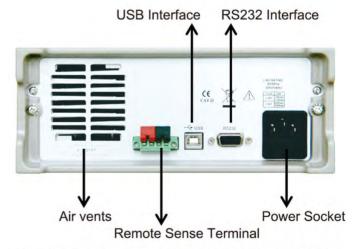
Dual-range Output

Take IT6862A as an example:

- High voltage range:0-32V,3A
- · Low voltage range:0-12V,6A

IT6800A series power supplies give you the flexibility to select from dual output ranges. Normally,if user purchase a 32V/3A/96W power supply,the current working range is limited to 3A.But for IT6862A,user could get a high current working limitation by switch the working range. This feature greatly saves customer's cost.

Rear Panel Of IT6860A



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

Specifications

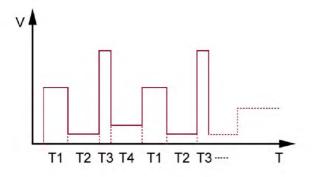
		IT6861A	IT6862A	IT6863A	IT6872A	IT6873A	IT6874A
Output Ratings		0-20V,5A/0-8V,9A	0-32V,3A/0-12V,6A	0-72V,1.5A/0-32V,3A	0-35V,4A/0-15V,7A	0-75V,2A/0-32V,4A	0-150V 1, 2A/0-60V 2A
Load Regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+5mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+3mA	≤0.01%+2mA	≤0.01%+2mA
Line Regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+5mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+3mA	≤0.01%+2mA	≤0.01%+2mA
Setup Resolution	Voltage	1mV	1mV	1mV	1mV	1mV	1mV(<100V) 10mV(≥100V)
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Read Back Resolution	Voltage	1mV	1mV	1mV	1mV	1mV	1mV(<100V) 10mV(>100V)
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Setup Accuracy	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Read Back Accuracy	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
The second second second	DMV	≤2mVp-p / 0.5mVrms(20V/5A)	≤3mVp-p/0.5mVrms(32V/3/	A) ≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤5mVp-p/1.5mVrms
Ripple (20Hz-20MHz)		≤3mVp-p/1mVrms(8V/9A)	≤4mVp-p/1mVrms(12V/6A	s) ≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤5mVp-p/1.5mVrms
A STATE OF THE PARTY OF THE PAR	DMA	<9 mArms	<7mArms	<6mArms	<6mArms	<6mArms	<6mArms
	CMA	<1.5µArms	<1.5µArms	<1.5µArms	<1.5µArms	<1.5µArms	<1.5µArms
Up Time	10%-90%	<90ms	<90ms	<90ms	<90ms	<120ms	<150ms
Down Time	90%-10%	<150ms	<200ms	<250ms	<350ms	<450ms	<2s
Dynamic recovery time	Recovery 75mV	<50µS	<50µS	<50µS	<50µS	<50µS	<100µS
Dimension (W*H*D)	Size			214.5mm*88.2mm	*354.6mm		

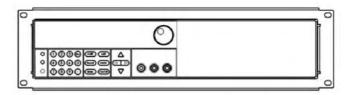
Output Timer Function

IT6860 series power supplies support output timer function. When you enable the function, the "Timer" indicator will lit on the VFD. When the output is "on", the output will turn off automatically after the time elapsed

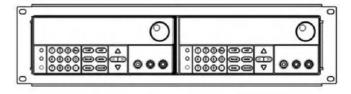
List Mode

List mode allows user to create a sequence of steps, store it into the power supply's non volatile 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.





19" installation (One unit)



19" installation (Two units)

Standard Accessories:

Power Cord	
Test Report	
User Manual	

Optional Accessories:

IT-E151 Mounting Kit

*Note: IT6860A series power supplies have built-in RS232 and USB interfaces.





IT6122B

Features

- Luminous LED key
- Memory capacity: 100 groups
- High accuracy and resolution of 0.1mV/ 0.01mA
- List mode
- Timer function (0.01~60000S)
- Fast voltage rise speed (<20mS)
- Remote sense interface to compensate line voltage drop
- Built-in 5½ digital voltmeter
- Built-in RS232/USB/GPIB interface and support SCPI protocol
- OVP, voltage/current-limiting protection
- Provide free software with strong function, saving secondary development time.

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

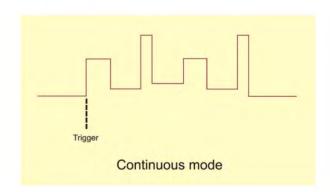
IT6120B High Speed And High-accuracy Programmable DC Power Supply

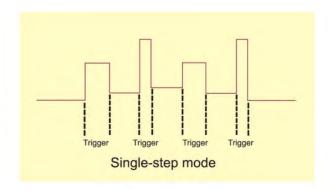
IT6120B (86W~150W) Series has fast voltage rising speed and high accuracy. Voltage range 20V~72V,current range1.2A~5A,voltage rising speed (<20mS),high accuracy and resolution of 0.1mV /0.01mA, Also configure with standard RS232/USB/GPIB interface to realize fast communication speed.List configure can be operated on front panel. This series offer flexible solution to general laboratory and workshop requirement.

List Mode

List mode allows user to edit output wareform based on current/voltage with time variations. The list parameters include operating modes (continuous mode or single-step mode), recycling times, single-step voltage, single-step current, single-step time, saving file name.

After the list editing is finished, when a trigger signal is received, the power supply will work according to the list steps.





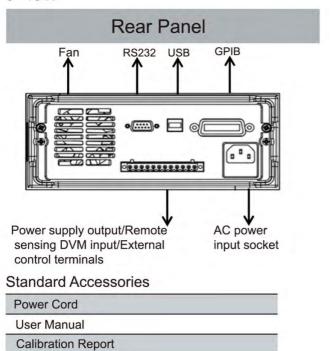


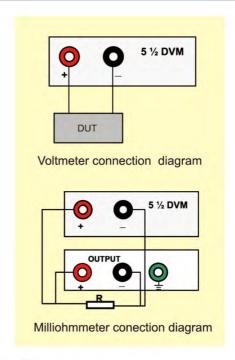
IT6120B Specifications

		IT6121B	IT6122B	IT6123B	IT6132B	IT6133B
Output Rating	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 Resolution	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(20-7MHz)	Vpp	<3mv Vp-p	<3mv Vp-p	<4mVp-p	<4mVp-p	<5mVp-p
	Irms	<3mA rms	<3mA rms	<3mA rms	<4mArms	<3mArms
Setup Resolution	Voltage	1mV	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Setup Resolution	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
Setup Accuracy	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.01mA	0.01mA	0.01mA	0.01mA	0.01mA
Readback Resolution	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		
	Load	<150uS	<150uS	<150uS	<150uS	<150uS
	Voltage Rise	<20mS	<20mS	<20mS	<20mS	<20mS
	Voltage Decend	<200mS	<150mS	<150mS	<250mS	<200mS
OVP	Range	1-19V	1-31V	1-71V	1-29V	1-59V
	Accuracy		±(\$	Setup*0.5%+0.5V)		
	Response time			<10mS		
Size (W*H*D)	Dimension	214.5mm*88.2mm*354.6mm				
Weight				7Kg		

Digital Voltmeter

The digital milliohmmeter: IT6120B provide 4-wires resistance measurement method, measuring range: $0\sim1K\Omega$; The digital voltmeter: IT6100B provide 5 ½ voltage meter to measure external voltage, measuring range: 0~40V.





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





IT7321

Features

- High accuracy and resolution
- Programmable frequency:45Hz-500Hz
- Display Vrms,Irms,Ipeak,frequency,PF,apparent power and active power simultaneously
- IEC61000-4-11,IEC 61000-4-14,IEC 61000-4-28 voltage dips and frequency variation simulation
- Power line disturbance simulation capability
- Programmable voltage and current limit settings
- Dimmer function
- Turn on,turn off phase angle control(0-360°)
- TTL signal which indicates output transient
- Support front and rear panel output
- List mode to generate surge,sag and other line disturbance simulations
- Over-voltage,over-power,over-current,over-temperat ure protection features
- Built-in LAN,RS-232/USB interface programming with SCPI command language

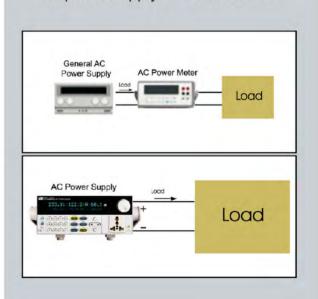
Model	Specification
IT7321	300V/3A/300VA

IT7321 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 LAN / RS232/USB communication interface.

They can be applied to commercial, power electronics and military test applications from bench-top testing to mass production.

"AC power supply" + "Power meter"



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

Linear Amplifier Technology

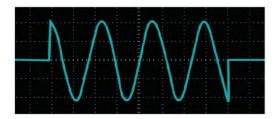
IT7321 AC source adopts latest linear technology which greatly reduce the output noise and ensure high working stability. Because of the lower ripple index, this series AC source can assist user to get a more precision measuring result.

Multi-function & High Precision Measurement

IT7321 AC source uses advanced DSP circuit to get higher precision and high-speed measurement for ture 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 a AC source, but also a powerful meter.

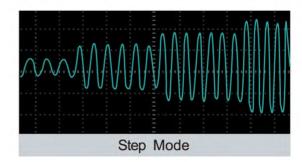
Adjustable Phase Angle

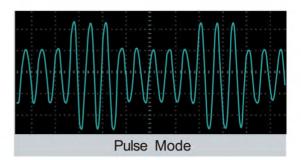
User can set the start and stop phase angle within range of 0~360°. This function is widely used for startup and shutdown current impact test or various rectifier performance test.

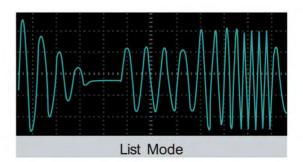


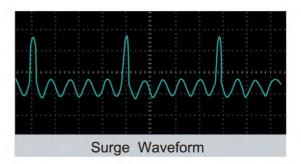
Power Line Disturbance Simulation Function

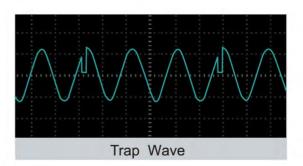
IT7321 provides powerful functions to simulate all kinds of power line disturbance conditions. The STEP and PULSE modes offer a method to execute a single step or continuous output changes. The LIST Mode, up to 100 sequences, extends this function for more complex waveform generator needs. In this way, 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 61000-4-128 immunity test regulations.











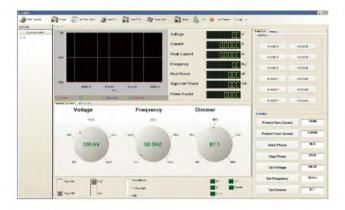


Built-in Communication Interface

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/GPIB/LAN interface, providing customer high speed and stable communication quality.

Built-in Communication Interface

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

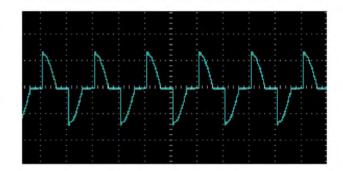


High Stability

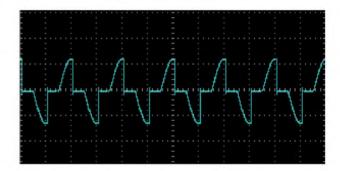
Based on professional high anti-environment disturbance technology, self-diagnosis design and OCP/OPP/OTP protections, this series power supply could work well even in bad environment. IT7321 AC power supply assists engineer to ensure quality for products.

TRIAC Dimmer Simulation Function

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



Front Phase Dimmer



Back Phase Dimmer

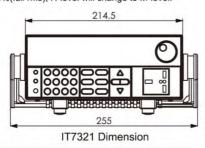
SWEEP Function

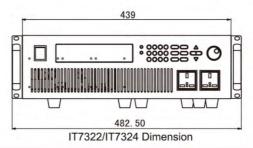
This function tests efficiency of switch power supply and gets voltage and frequency value at max power. It could change voltage and frequency by setting start voltage value, end voltage value, stepping voltage value, start frequency, end frequency, stepping frequency and time of each step. Time unit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

IT7321 Programmable AC Power Supply 31

Specification		Basic Products			High Performance Products			
-		IT7321		IT7322	IT7324	IT7326		
INPUT								
Phase		1		1	1	1		
Voltage		220 Vac/110 Vac±10%	22	0 Vac/110 Vac±10% 220	0Vac/110Vac±10%	220 Vac±10%		
Frequency		47-63 Hz		47-63 Hz	47-63 Hz	47-63 Hz		
Max.Current		6.3 A(220Vac)/10 A(110Vac)	15 A (2	220 Vac) / 30 A (110 Vac) 30 A	A (220Vac) / 60 A (110Vac)	60A		
Power Factor		0.5 (typical)	0	0.7 (typical)	0.7(typical)	0.7(typical)		
AC OUTPUT					131			
Max.Power		300 VA	7	50 VA	1500 VA	3000 VA		
Max Current(rms)	0-150 V	3.0 A	6	A (0-150 V)	12 A(0-150 V)	24 A(0-150 V)		
	0-300 V	1.5 A		A (0-300 V)	6 A(0-300 V)	12 A(0-300 V)		
Max Current(peak)	0-150 V	12 A		4 A (0-150 V)	48 A (0-150 V)	96 A (0-150 V)		
wax our on (poak)	0-300 V	6A		2 A (0-300 V)	24 A(0-300 V)	48 A(0-300 V)		
Phase	0-300 V	1Φ/3W		Φ/3W	1Φ/3W	1Φ/3W		
Total Harmonic Dist	ortion/T U D)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 - 21	at 45-500 Hz (Resistive Load		14/300		
Crest Factor	(ווטווניות)			43-300 HZ (Nesistive Load	1)			
				max for a ±10% line change				
Line Regulation				FS (Resistive Load)				
Load Regulation		-						
Response Time			·	<100µS				
SETTING			0001	450/000/44				
	Range			V, 150/300V Auto				
Voltage	Resolution	0.1 V						
	Accuracy	±(0.2% +0.6 V)						
	Range			15-500 Hz				
Frequency	Resolution	0.1Hz at 45-99.9 Hz 1Hz at 100-500Hz						
	Accuracy	0.1 Hz 0-360°						
	Range			0-360°				
Phase Angle	Resolution			0.1°				
	Accuracy		±1°(4	5-65 Hz)				
MEASUREMEN	T			100000				
	Range			0-300 V				
Voltage(rms)	Resolution			0.1 V				
	Accuracy			±(0.2% + 0.6V)				
	Range	L:120.0mA/M:1.200A/	Н:3А	L:1200 mA/M:1200 A/H:6 A	L:1200mA/M:1200A/H:12A	L:1200mA/M:1200A/H:24A		
Current(rms)	Resolution			L:0.1m A/M: 1mA/H:10 mA				
	Accuracy	L:±(0.2%+0.6mA) M:±(0.2%+6mA) H:±(0.2%+40mA)		L: ±(0.2%+0.6 mA) M: ±(0.2%+6 mA) H: ±(0.2%+60 mA)	L:±(0.2%+0.6 mA) M:±(0.2%+6 mA) H:±(0 2%+80 mA)	L:±(0.2%+0.6 mA) M:±(0.2%+6 mA) H:±(0.2%+ 0.1 A)		
	Range	0-12A		0-24 A	0-48 A	0-96 A		
Current(peak)	Resolution	0.01A		0.01 A	0.01 A	0.01 A		
,	Accuracy	±(1%+360mA)		±(1%+360 mA)	±(1%+360 mA)	±(1%+360 mA)		
Power	Resolution	L:0.01W M:0.1W H:	1W	L:0.01W M:0.1W H:1V		L:0.01W M:0.1W H:1W		
	Accuracy	L:±(0.2%+0.2W) (47Hz-65 Hz) M:±(0.2%+2W) (47Hz-65 Hz) H:±(0.2%+4W) (47Hz-65Hz)) L:±(0.2%+0.2W) (47Hz-65Hz)	THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE		
GENERAL								
Memory				10 memories				
Sync Output Signal				Output Signal 5V,BNC	type			
Operation Environm	ent			0-40°C/20-80%RH				
Dimension		½19" 2U	19	" 3U	19" 3U	19" 6U		
Interface		LAN/USB/RS232	LA	N/USB/RS232/GPIB	LAN/USB/RS232/GPIB	LAN/USB/RS232/GPIB		

^{*}There are three levels of current, L-level, M-level and H-level. If Ipeak>300%(Full rms), low level will change to high level; if Ipeak<20%(full rms), M-level will change to L-level; if Ipeak<80%(full rms), H-level will change to M-level.





Unit: mm

32 IT7321 Programmable AC Power Supply



pecification			High Performance Products	- Artikana
		IT7322H	IT7324H	IT7326H
NPUT				
Phase		1	1	1
Voltage		220 110 Vac±10%	220 110 Vac±10%	220Vac±10%
Frequency		47-63 Hz	47-63 Hz	47-63 Hz
Max.Current		15A(220Vac)/30A(110Vac)	30A(220Vac)/60A(110Vac)	60 A
Power Factor		0.7(typical)	0.7(typical)	0.7(typical)
AC OUTPUT				
Max.Power		750 VA	1500 VA	3000 VA
Max Current(rms)	0-250V	3.0 A	6 A	12 A
	0-500V	1.5 A	3A	6 A
Max Current(peak)	0-250V	12 A	24 A	48 A
	0-500V	6A	12 A	24 A
Phase		1Φ/3W	1Φ/3W	1Φ/2W
Total Harmonic Dist	ortion(T.H.D)		≤1% at 45-500 Hz (Resistive Load)	
Crest Factor			≤4	
Line Regulation			0.1% max for a ±10% line change	
Load Regulation			≤0.5% FS (Resistive Load)	
Response Time			<100 µS	
SETTING	-			
	Range		0-500V, 250/500V Auto	
Voltage	Resolution		0.1V	
	Accuracy	± (0.2%+1.2 V)	±(0.2% + 0.6V)	±(0.2% + 0.6V)
	Range		45-500Hz	
Frequency	Resolution	0.	1Hz at 45-99.9Hz 1Hz at 100-500Hz	
	Accuracy		0.1Hz	
	Range		0-360°	
Phase Angle	Resolution		0.1°	
	Accuracy		±1°(45-65Hz)	
MEASUREMEN'	T	A service	1000	18 8157
	Range	0-500 V	0-500V	0-500V
Voltage(rms)	Resolution	0.1 V	0.1V	0.1V
	Accuracy	±(0.2%+1.2 V)	±(0.2% + 0.6 V)	±(0.2% + 0.6V)
	Range	L:120.0mA * M:1.200A * H:3.00A *	L:120.0mA/ M:1.200A/ H:6.00A	L:240.0mA/ M:2.400A/ H:24.00
Current(rms)	Resolution	L:0.1mA M:1mA H:10mA	L:0.1mA/ M:1mA/ H:10 mA	L:0.1mA/ M:1mA/ H:10 mA
	Accuracy	L:±(0.2%+0.6 mA)	L: ±(0.2%+0.4 mA)	L:±(0.2%+0.6 mA)
		M:±(0.2%+6 mA)	M: ±(0.2%+6 mA)	M:±(0.2%+6 mA)
		H:±(0.2%+40 mÅ)	H: ±(0.2%+60 mA)	H:±(0.2%+40 mA)
	Range	0-12 A	0-24A	0-48 A
Current(peak)	Resolution	0.01 A	0.01 A	0.01 A
	Accuracy	±(1%+360 mA)	±(1%+360 mA)	±(1%+120 mA)
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-65 Hz) M: ±(0.2%+2W) (47Hz-65 Hz) H: ±(0.2%+6W) (47Hz-65 Hz)	L: ±(0.2%+0.2W) (47Hz-65Hz) M: ±(0.2%+2W) (47Hz-65Hz) H: ±(0.2%+10W) (47Hz-65Hz)	L:±(0.2%+0.05W) (47Hz-65Hz) M:±(0.2%+0.5W) (47Hz-65Hz) H:±(0.2%+2W) (47Hz-65Hz)
SENERAL			10.2/0-1011/[4/112-0012]	
Memory			10 memories	
Sync Output Signal Operation Environm	ent		Output Signal 5V,BNC type 0-40℃/20-80%RH	
Dimension		19″ 3U	19" 3U	19" 6U
Difficion		LANGUER PROPERTY OF THE	LANGUED (DOOD) (ODID	LANGUED (DOOG) (ODID

^{*}There are three levels of current, L-level, M-level and H-level. If Ipeak>300%(Full rms), low level will change to high level; if Ipeak<20%(full rms), M-level will change to L-level; if Ipeak<80%(full rms), H-level will change to M-level.

LAN/USB/RS232/GPIB



LAN/USB/RS232/GPIB

Standard Accessories

LAN/USB/RS232/GPIB

Power Cord Calibration Report User Manual

Interface



Features

- 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 power analyzer has a function of harmonic measurement, and can be used for measuring up to 50th harmonics
- 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 analyzer also has a function of frequency measurement.
- Standard built-in USB, GPIB, RS232 and Ethemet 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 analyzer 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.

IT9121E Power Analyzer

The IT9121E power analyzer 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.

Rich Measurement Functions

The IT9121E power analyzer 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 up to 50th harmonic measurement, and can display single harmonic components. It is widely applied in tests of motors, household PCB, UPS, etc.

Current Transducer 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 range of 50m V-2V (EX1) or 2.5V-10V (EXT2).





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.



TFT High-resolution LCD

IT9121E 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 IT9121E power meter provides multiple interface display styles (View1, View4 and View12). The user can customize the screen display parameter type and display sequence, and roll over the screen display via the keys "Left" and "Right". The humane design meets engineers' measurement demands in different tests.



Application Advantages

■ Power quality analysis of UPS

As an important backup power supply in the communication industry, the steady-state properties, dynamic properties, power quality and other parameters of UPS should be analyzed. Due to internal nonlinear devices, a large number harmonic components will be produced during operation of the UPS power supply, which may cause interference to operation of the communication system. The IT9121E power analyzer can measure the AC/DC signal, power factor, harmonics, frequency, distortion factor and other, and the power properties of UPS can be analyzed systematically and comprehensively.



Performance test of household electrical appliances

Along with the large-scale promotion of the concept of reasonable and environment-friendly energy, more and more household electrical appliances adopt the variable frequency control technology to reduce the power consumption. The IT9121E power analyzer can measure the inrush current, active power, crest factor and other parameters.





General Specification		
Model	IT9121E	
AC input voltage	100 VAC - 240 VAC 50 / 60 Hz	
Warm-up time	Apporx 30 minutes	
Operating environment	Temperature : $5\% - 40\%$ Humidity : 20 % RH $-$ 80 % RH (No condensation) Altitude : 2000 m or less 2000 m	
Storage environment	Temperature : $-20^{\circ}\text{C} - 50^{\circ}\text{C}$ Humidity : $20^{\circ}\text{RH} - 80^{\circ}\text{RH}$ (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 Displa	ay
	Detailed Information
Display type	Dimension: 4.3-inch color LCD (TFT) Full screen pixel: 480 (horizontal) *272 (vertical) points
	Waveform display pixel: 384 (horizontal) *194 (vertical points
	Operating temperature: -20 C ~ 70 C Storage temperature: -30 C ~ 80 C
	Value display : matrix display

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			
Measure range	Voltage:15V, 30V, 60V, 150V, 300V, 600V current:			
	Direct input: 5mA, 10mA, 20mA, 50mA, 100mA, 200mA, 0.5A, 1A, 2A, 5A, 10A, 20A Sensor input: EX1: 50mV, 100mV, 200mV, 500mV, 1V, 2V; EX2: 2.5V, 5V, 10 V。			
Input impedance	Voltage: Input resistance: Approx. $2M\Omega$, input capacitace: Approx.13pF (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 k Ω (2.5 V ~ 10 V) Input resistance: Appro x 20 k Ω (50 mV ~ 2 V)			
Continuous maximum allowable input	Voltage: peak value of 1.5 kV or RMS value of 1 kV, whichever is less current:			
	 Direct input range 5 mA ~ 200 mA: peak value of 30 A or RMS value of 20 A, whichever is less 			
	 Direct input range 0.5 A ~ 20 A: peak value of 100 A or RMS value of 30 A, whichever is les: 			
	 Sensor input: Peak value less than or equal to 5 times of the rated range 			

Instantaneous maximum	Current:			
allowable input(1s)	 Direct input range 5 mA ~ 200 mA: peak value of 30 Aor RMS value of 20 A, whichever is les 			
	 Direct input range 0.5 A ~ 20 A: peak value of 150A or RMS value of 40 A, whichever is less 			
	Sensor input :			
	 Peak value less than or equal to 10 times of the rated range 			
Input bandwidth	DC, 0.5 Hz ~ 1 MHz			
Continuous maximum Common-mode voltage	600 Vrms, CAT II			
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° C, 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: \pm (0.1% of reading + 0.2% of range) 0.5 Hz \leq f $<$ 45 Hz: \pm (0.1% of reading + 0.2% of range) 45 Hz \leq f \leq 66 Hz: \pm (0.1% of reading + 0.2% of range) 66 Hz $<$ f \leq 1k Hz: \pm (0.1% of reading + 0.2% of range) 1 kHz $<$ f \leq 10 kHz: (0.1% of reading + 0.2% of range) \pm (0.07*f)% of reading + 0.3% of range) 10 kHz $<$ f \leq 100 kHz: \pm (0.5% of reading + 0.5% of range) \pm {{0.04 × (f-10)} % of reading}		

Active Power Accuracy				
Item	Specifications			
Requirements	same as the conditions for voltage and current. Power factor:1			
Accuracy	DC: $(0.1\% \text{ of reading} + 0.2\% \text{ of range})$ $0.5 \text{ Hz} \le f < 45 \text{ Hz} : \pm (0.3\% \text{ of reading} + 0.2\% \text{ of range})$ $45 \text{ Hz} \le f \le 66 \text{Hz} : \pm (0.1\% \text{ of reading} + 0.1\% \text{ of range})$ $66 \text{ Hz} < f \le 1 \text{ kHz} : \pm (0.2\% \text{ of reading} + 0.2\% \text{ of range})$ $1 \text{ kHz} < f \le 10 \text{ kHz}$:			
	\pm (0.1 % of reading + 0.3 % of range) \pm [{0.067×(f-1)} % of reading			
	10 kHz < f \leq 100 kHz: \pm (0.5 % of reading + 0.5 % of range) \pm {{0.09×(f-10)}} % of reading			
Influence of power factor	when power factor (λ)=0 (S:apparent power) • \pm 0.2 % of S for 45 Hz \leq f \leq 66 Hz			
	• $\pm \{(0.2 + 0.2 \times f) \% \text{ of S} \}$ for up to 100 kHz as reference data			
	f is frequency of input signal in kHz			
	when $0 < \lambda < 1$ (Φ : phase angle of the Voltage and current) (power reading)×((power reading error%)+(power range %)× (power range/indicated apparent power value)+{tan Φ × (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 %			



Accuracy of power factor λ $\pm \left[(\lambda - \lambda/1.0002) + |\cos \varnothing - \cos \{\varnothing + \sin - 1 \text{ (influence from the power factor when } \lambda = 0\%/100) \right]$ $\pm 1 \text{digit when voltage and current are at the measurement range rated input}$ $\text{Accuracy of phase difference } \Phi \qquad \pm \left[|\varnothing - \cos - 1 (\lambda/1.0002)| + \sin - 1 \text{ (influence from the power factor when } \lambda = 0\%/100) \right]$ $\pm 1 \text{digit when voltage and current are at the measurement range rated input}$

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 Range increase Range decline

	Name	Symbols And Meanings
	Voltage current	Select RMS(the effective RMS value of voltage and current). 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 voltage and peak value of current).
	Active power [W]	Р
Measurement	Reactive power[var]	Q
parameters	Apparent power [VA]	S
	Power factor	λ
	Phase difference (°)	φ
	Frequency (Hz)	fU (FreqU): voltage frequency fl (FreqI): current frequency
	Max/mix of voltage (V)	Upk+: voltage positive peak Upk-: voltage negative peak
	Max/mix of current (A)	lpk+: current positive peak lpk-: 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 (cutoff 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		
	Vaties depending on the data update interval (see description given later)as follows		
Frequency filter	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	$2.5 \text{ Hz} \le f \le 100 \text{ kHz}$	
	2 s	$1.5 \text{ Hz} \le f \le 50 \text{ kHz}$	
	5 s	$0.5 \text{ Hz} \le f \le 20 \text{ kHz}$	
Frequency filter	Select OFF or ON (cutoff frequency of 500 Hz)		
Accuracy	Requirements: When the input signal level is 30 % or more of the measurement range and the crest factor is set to 3 (60 % or more if the crest factor is set to 6), Frequency filter is ON when measuring voltage or current of 200Hz or less. Accuracy: ± (0.06 % of reading)		

Harmonic Measurement

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

	Name	Symbols And Me	eanings
	Voltage (V)	U(k): voltage effective value of	U(Total) : voltage effective
	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
3	Power factor	λ(k): power factor of Kth harmonic	λ(Total): Total power factor
measurement parameter	Phase difference	$\begin{array}{l} \phi(k)\text{: phase difference between} \\ \text{voltage and current of Kth harmonic} \\ \phi U(k)\text{: voltage phase difference} \\ \text{between Kth harmonic(UK) and} \\ \text{fundamental wave(U1)} \\ \phi I(k)\text{: current phase difference} \\ \text{between Kth harmonic(IK) and} \\ \text{fundamental wave(I1)} \\ \end{array}$	φ: total phase difference
neter	Harmonic distortion factor (%)	Uhdf(k): Voltage ratio of Kth harmonic(Uk) and fundmental wave(U1) or total distortion wave(Utotal) Ihdf(k): current ratio of Kth harmonic; (Ik) and fundmental wave(I1) or Total distortion wave(Itotal) Phdf(k): active power ratio of Kth harmonic(Pk)and fundmental wave (P1)or total distortion wave(Ptotal)	
	(THD) total harmonic distortion or total distortion wave(Utotal). Ithd: 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)		
Vindow	Rectangle		

Note: K is a integer from 0 to upper limit of harmonic analyse times. 0th means DC parameteUser 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 Sample rate Window width Upper limit of*			
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 Hz	0.15% of reading	0.15%of reading	0.15%of reading
	+0.35% of range	+0.35%of range	+0.50%of.range
45 Hz ≤ f ≤ 440 Hz	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	0.20% of reading	0.40% of reading
	+0.35% of range	+0.35% of range	+0.50% of range
1 kHz < f ≤ 2.5 kHz	0.80% of reading	0.80% of reading	1.56%of reading
	+0.45% of range	+0.45% of range	+0.60%of range
2.5 kHz <f≤5 khz<="" td=""><td>3.05% of reading</td><td>3.05%of reading</td><td>5.77% of reading</td></f≤5>	3.05% of reading	3.05%of reading	5.77% of reading
	+0.45% of range	+0.45%of range	+0.60% of range

Interfaces

- USB Interface
- Ethernet Interface
- GPIB Interface
- RS232 Interface

Standard Accessories

Ì	Power Cord
	CD
į	USB Cable

Optional Accessories

IT-E185		
IT-E301	/30A/10A	
IT-E190	/25A/40A/60A	ī



IT-E133GPIB communication cable, support SCPI protocol Applicable model: IT6800 series IT-E134GPIB communication cable, support SCPI protocol

Applicable model: IT8500 series



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



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 fuction Applicable model:IT8500+ series



IT-E163 0-10V simulation interface cable for monitoring and setting Applicable model: IT8500 series



IT-E30110-AB



IT-E31220-OO IT-E32420-OO

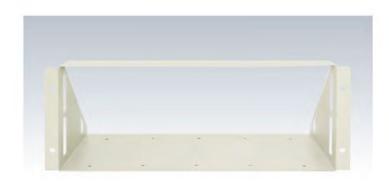
IT-E30110-AB	10A / 1m/ Alligator clips - Banana plugs	
IT-E30110-BB	10A /1m / Banana plugs - Banana plugs	
IT-E30110-BY	10A /1m / Banana plugs - Y-type terminals	
IT-E30312-YY	YY 30A /1.2m / Y-type terminals - Y-type terminal	
IT-E30320-YY	30A / 2m / Y-type terminals - Y-type terminals	
IT-E30615-OO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

38 Optional Accessories





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



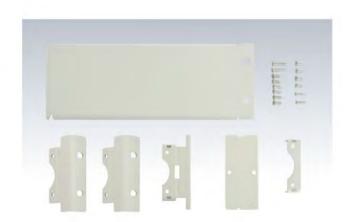
IT-E152 Rack mount kit Applicable models:IT8200 and IT6700 series



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



1/2 2U Double units installation picture



IT-E151A 19 Rack mount kit Applicable models: IT9121,6322A



IT-E185 The testing fixture box (250V/15A) Applicable model: IT9121E



IT-E190-6A Current sensor Applicable model: IT9121E



IT-E190-15A Current sensor Applicable model: IT9121E



IT-E190-25A Current sensor Applicable model: IT9121E



ITECH Products Selection Guide

TECH Products Selection		
IT8500+ Single Channel Electronic Load	(Optional RS232/USB/GPIB interface)	
Model	Specification	
IT8511A+	150 V / 30 A / 150 W	
IT8512A+	150 V / 30 A / 300 W	
IT8512B+	500 V / 15 A / 300 W	
IT8512H+	800 V / 5A / 300 W	
IT8512C+	120 V / 60 A / 300 W	
IT8513C+	120 V / 120 A / 600 W	
IT8514B+	500 V / 60 A / 1500 W	
IT8514C+	120 V / 240 A / 1500 W	
IT8516C+	120 V / 240 A / 3000 W	
IT8200 Economic Electronic Load		
Model	Specification	
IT8211	60 V / 30 A / 150 W	
* DC Power Supply		
IT6500 Auto-range DC Power Supply	(Standard RS232/USB/GPIB/RS485 interface)	
Model	Specification	
IT6502D	80 V / 60 A / 800 W	
IT6900 Multi-function Power Supply	(Standard RS232/USB/GPIB interface	
Model	Specification	
IT6922A	60 V / 5A / 100 W	
IT6932A	60 V / 10 A / 200 W	
IT6942A	60 V / 15 A / 360 W	
IT6952A	60 V / 25 A / 600 W	
IT6953A	150 V / 10 A / 600 W	
IT6860A Dual-range Power Supply	(Standard RS232/USB interface	
Model	Specification	
IT6861A	20 V / 5 A / 100 W 8 V / 9A / 72W	
IT6862A	32 V / 3 A / 96 W 12 V /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	
IT6860B Dual-range Power Supply	(Standard RS232/USB/GPIB interface	
Model	Specification	
IT6861B	20V/5A/100W 8V/9A/72W	
IT6862B	32V/3A/96W 12V/6A/72W	
IT6863B	72V/1.5A/108W 32V/3A/96W	
IT6872B	35V/4A/140W 15V/7A/105W	
IT6873B	75V/2A/150W 32V/4A/128W	
IT6874B	150\//1.24/180\//60\//24/120\//	

IT6120B High Accuracy Power Supply	(Standard RS232/USB/GPIB interface)
Model	Specification
IT6121B	20 V / 5 A / 100 W
IT6122B	32 V / 3 A / 96 W
IT6123B	72 V / 1.2 A / 86 W
IT6132B	30 V / 5 A / 150 W
IT6133B	60 V / 2.5 A / 150 W
IT6300A Triple-Channel Power Supply	(Standard RS232/USB interface)
Model	Specification
IT6322A	30 V /3 A / 90 W*2 CH
1100227	5 V / 3A / 15 W*1 CH
IT6332A	30 V / 6A/180W* 2CH
110002A	5 V / 3 A / 15 W*1 CH
IT6333A	60 V/ 3 A / 180 W*2 CH
110333A	5 V / 3 A / 15 W*1 CH
IT6302 Triple-Channel Power Supply	(Optional RS232/USB interface)
Model	Specification
IT6302	30 V /3 A /90 W*2 CH
	5 V/3 A / 15 W*1 CH
IT6700 Digital Control Power Supply	
Model	Specification
IT6720	60 V / 5 A / 100 W
IT6721	60 V / 8 A / 180 W
*AC Power Analyzer	
IT7321	300V/3A/300VA
*Power Analyzer	
IT9100 Power Analyzer	(Standard RS232/USB/GPIB/Ethernet interface)
Model	Specification
IT9121E	600V/20A



150V/1.2A/180W 60V/2A/120W



IT6874B



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