## IT8500+ Electronic load 19

# IT8500+ Electronic load



#### Feature

- Highlight VFD display
- Dynamic mode:up to 10KHZ
- Resolution of voltage and current:0.1mV/0.1mA
- 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 funciton
- 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

### Programmable DC electronic load

IT8500+ series is a single-channel programmable electronic load . With power ranges from 150W to 1500W . 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**

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

#### Constant Voltage

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

#### **Constant Resistance**

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

#### **Constant Power**

In CW 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
IT8511+	120V	30A	150W
IT8511A+	15 <b>0</b> ∨	30A	150W
IT8512+	120V	30A	300W
IT8512A+	150V	30A	300W
IT8512B+	500V	15A	300W
IT8512C+	120V	60A	300W
IT8513C+	120V	120A	600W
IT8514B+	500V	60A	1500W
IT8514C+	120V	240A	1500W
IT8516C+	120V	240A	3000W

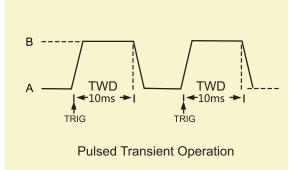
\*Note:IT8514C+and IT8516C+have RS232 and USB interface

# 20 IT8500+ Electronic load

# Your Power Test Solution

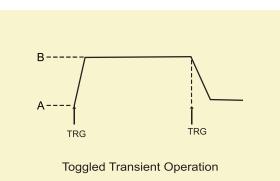
#### **Transient Mode**

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.



## 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

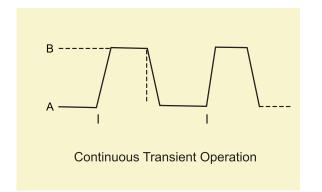
The automatic test function of the IT8500+ series electronic load is useful for simulating various tests and allows the user to edit up to 10 groups of testing files. Each file has 10 steps and up to 100 files can be edited and saved into the EEPROM.

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 range (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		

### 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 effect. The load will automatically switch to A level after maintaining A width time. Then it will switch to B level. The load will not switch to A level again until the instrument receives the pulse signal.

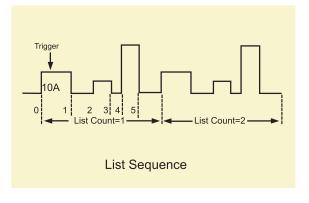
## IT8500+ Electronic load 21

#### List mode

ITECH ELECTRONICS Your Power Test Solution

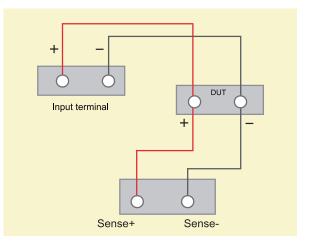
List mode allows you to generate a complex current sequence . Moreover , the mode change can be synchronized with an internal or external singal , to accomplish dynamic and precise test which can save cost for users.

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.



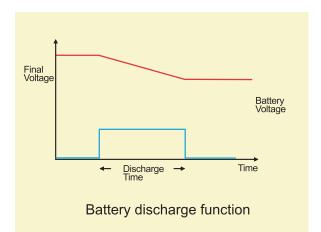
### **Remote Sense**

When working in CC, CV, CW 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.





## IT8500+Specification

Input Rating	Voltage	IT8511 0~120			IT8512			512B+ 500V
Input Rating	Current	0~3A	0~30A	0~3A	0 120	0~30A	0~3 A	0~15A
(0~40°C)	Power		0 W	0 0/(	300 W	0 00/1		300W
(0 400)	Minimum operating voltage		1.4V at 30A	0.12V at 3A		1.2V at 30A	0.6V at 3A	3V at 15A
CV Mode	Range	0~18V	0~120V	0~18V		0~120V	0~50V	0~500V
ov modo	Resolution	1mV	10mV	1mV		10mV	1mV	10mV
	Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02	2%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02%	
CC Mode	Range	0~3A	0~30A	0~3A		0~30A	0~3A	0~15A
	Resolution	0.1mA	1mA	0.1mA		1mA	0.1mA	1mA
	Accuracy	•••••		±(0.05%	6+0.05°			
CR Mode	Range	0.05Ω~10Ω	10Ω~7.5KΩ	0.05Ω~10Ω		10Ω~7.5ΚΩ	0.3Ω~10Ω	10Ω~7.5KΩ
orthiodo	Resolution			16bit				for florar
	Accuracy	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08	8.5	0.01%+0.0008S	0.01%+0.08S	0.01%+0.0008
CP Mode	Range		150W	300 W				DOW
	Resolution				10mW			
	Accuracy	0.1%+0.1	%FS			.1%FS	0.1%+0	).1%FS
	,	211,70 211		Dynamic mo				
		CC	model		C model			CC model
Dynamic mode	T1&T2			50 u S~3	3600S	/Res:1uS		
,	Accuracy				uS±100			
	Rising / falling slope	0.0001~0.3A/uS	0.001~1.5A/uS	0.0001~0.3A/		0.001~1.5A/uS	0.0001~0.3A/u	S 0.001~0.8A/us
	rusing / runing slope	0.0001 0.0/000	0.001 1.0/000		urement		0.0001 0.0/14	0 0.001 0.07140
V Measurement	Range	0~18V	0~120V	0~18V		0~120V	0~50V	0~500V
* Modourement	Resolution	0~18V 0.1mV	1mV	0~18V 0.1mV		0~120V 1mV	1 m V	10mV
	Accuracy	5.1111 V			025%	+0.025%FS)	· · · · ·	101111
I Measurement	Range	0~3A	0~30A	0~3A	.525 /0	0~30A	0~3A	0~15A
medsurement	Resolution	0~3A 0.1mA	1mA	0~3A 0.1mA			0~3A 0.1 mA	1mA
	Accuracy	0.1111A				1mA 0.05%FS)	0.111/4	111/A
M Moosurement		4=0	10/	±(0.		5.00 /01-0 )	300	Ν
W Measurement	Range Resolution	150	vv		300W		300	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
		1/0 40/ 10	10/ 5 8 )	1/0 40/	10mW		. (0.4.0)	+0.19/50)
	Accuracy	±(0.1%+0	.1%FS)	±(0.1% -		, ,	±(0.1%	+0.1%FS)
			214/		otection I	ange		0\\/
	Over power protection	≒16		⇒32	000		≒ 32	
	Over current protection	≒3.3A	≒33A .	≒3.3A		≒33A	≒3.3A	≒16A
	Over voltage protection		<u> </u>	=125V			= 53	
	Over temperature protection			≒85			≒85	Č
					Specificat			
Short circuit	Current(CA)	≒3.3/3A	≒33/30A	≒3.3/3A		≒33/30A	≒3.3/3A	≒16/15A
	Voltage(CV)				V			
	Resistance(CR)	≒45	mΩ	≒40			≒180r	mΩ
	Input impedance			150	NΩ			
Dimention (W*D*H)			214.5mm*354.6	mm*88.2mm			214.5mm*3	54.6mm*88.2mm
		IT85 <sup>2</sup>	20+		IT851	30+	IT	8514C+
Input Pating	Voltage	0~12			0~120			~120V
Input Rating	Current	0~6A	0~60A	0~12A		v )~120A	0~24A	0~240A
(0~40°C)	Power	300		0 124	600 W			1500W
(0 400)	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	0~18V	0~120V	0~18V		~120V	0~18V	0~120V
	Resolution	1mV	10mV	1mV		I0mV	1mV	10mV
	Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)			0.05% +0.025% FS)	±(0.05%+0.02%F	
CC Mode	Range	0~6A	0~60A	0~12A		~120A	0~24A	0~240A
CC MODE	Resolution	0.1mA	1mA	1mA		I0mA	1mA	10mA
	Accuracy	0.1117	TIIIA			05%FS)		IoniA
CD Mada		0.050, 100	100.7.5%0				0.050, 100	
CR Mode	Range	0.05Ω~10Ω	10Ω~7.5ΚΩ	0.05Ω~10Ω	16bit	10Ω~7.5ΚΩ	0.05Ω~10Ω	10Ω~7.5ΚΩ
	Resolution Accuracy							
CW/ Mada		0.040/ :0.000	0.010/ +0.00000	0.040/ +0.000		0.010/ 10.00000	0.010/10.000	0.048/ +0.000000
CW Mode		0.01%+0.085	0.01%+0.0008S	0.01%+0.08S	(	0.01%+0.0008S	0.01%+0.08S	0 01%+0 0008S
	Range		0.01%+0.0008S 0W	0.01%+0.08S	600W			0 01%+0 0008S 1500W
	Range Resolution	30	0W		600W 10m	N		1500W
	Range	30	0W 0.1%FS	0.2%+	600W	N		
	Range Resolution	30 0.1%+	0 W 0.1% FS Dyr	0.2%+ namic mode	600W 10m\ ⊦0.2%F\$	N	0.2	1500W %+0.2%FS
	Range Resolution Accuracy	30 0.1% + CC mo	0W 0.1%FS Dyi del	0.2%+ namic mode CC	600W 10m\ ⊦0.2%F\$ model	N 3	0.2 C	1500W %+0.2%FS :C model
Dynamic mode	Range Resolution Accuracy T1&T2	30 0.1%+ CC mo 20 u S~36 (	0 W 0.1% FS Dyi del 00 S / R es:1 u S	0.2%+ namic mode CC 100uS~3	600W 10mV 0.2%FS model 600S /R	N S ies:1 uS	0.2 C 100uS~3	1500W %+0.2%FS C model 3600S /Res:1 uS
Dynamic mode	Range Resolution Accuracy T1 & T2 Accuracy	30 0.1%+ CC mo 20uS~360 2uS	0.1% FS Dyi del :00S/Res:1uS :100ppm	0.2%+ namic mode CC 100uS~3 10uS	( 600W 10m∖ ⊧0.2%FS model 600S /R S±100pp	N S es:1 uS om	0.2 C 100uS~3 10u	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm
Dynamic mode	Range Resolution Accuracy T1&T2	30 0.1%+ CC mo 20 u S~36 (	0 W 0.1% FS Dyi del 00 S / R es:1 u S	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2 <i>F</i>	600W 10m V 0.2%FS model 600S /R S±100pp V/uS	W S es:1 uS m 0.01~1.6A/uS	0.2 C 100uS~3	1500W %+0.2%FS C model 3600S /Res:1 uS
	Range Resolution Accuracy T1&T2 Accuracy Rising / falling slope	30 0.1% + CC mo 20 u S~36( 2 u S 0.0001~0.3A/uS	0W 0.1% FS Dy del 00S /Res:1uS :100ppm 0.001~3A/uS	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Mer	( 600W 10m∖ ⊧0.2%FS model 600S /R S±100pp	W S om 0.01~1.6A/uS nt range	0.2 C 100uS~3 10u 0.001~0.3A/uS	1500W %+0.2%FS C model 600S /Res:1 uS iS±100ppm 0.01~3.2A/uS
Dynamic mode	Range Resolution Accuracy T1&T2 Accuracy Rising / falling slope Range	30 0.1% + CC mo 20 u S~36( 2 u S= 0.0001~0.3A/uS 0~18V	0W 0.1% FS Dy del 00S /Res:1uS 100ppm 0.001~3A/uS 0~120V	0.2%1 namic mode CC 100uS~3 10uL 0 001~0.2A Me: 0~18V	600W 10m V 0.2%FS model 600S /R S±100pp V/uS	V S m 0.01~1.6A/uS 0~120V	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V	1500W %+0.2%FS C model 3600S /Res:1 uS IS±100ppm 0.01~3.2A/uS 0~120V
	Range Resolution Accuracy T1&T2 Accuracy Rising / falling slope Range Resolution	30 0.1% + CC mo 20 u S~36( 2 u S 0.0001~0.3A/uS	0W 0.1% FS Dy del 00S /Res:1uS :100ppm 0.001~3A/uS	0.2%+ namic mode 100uS~3 10uS 0 001~0.2A Mei 0~18V 0.18V 0.18V	600W 10m V +0.2%F\$ model 600S /R S±100pp V/uS asuremen	V S m 0.01~1.6A/uS nt range 0~120V 1 mV	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1m V	1500W %+0.2%FS C model 3600S /Res:1 uS 100ppm 0.01~3.2A/uS 0~120V 1 mV
V Measurement	Range Resolution Accuracy T1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy	30 0.1% + CC mo 20 uS~360 2 uS= 0.0001~0.3A/uS 0~18V 1m V	0W 0.1% FS Dy del 00S /Res:1uS :100ppm 0.001~3A/uS 0~120V 10m V	0.2%+ namic mode 100uS~3 10us 0 001~0.2/ Me: 0~18V 0.1m V ±(0.025	600W 10m V +0.2%F\$ model 600S /R S±100pp V/uS asuremen	V S om 0.01~1.6A/uS nt range 0~120V 1 mV 25%FS)	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 25 % +0.025%FS )
	Range Resolution Accuracy T 1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy Range	30 0.1% + CC mo 20 u S~36( 2u S 0.0001~0.3A/uS 0~18V 1m V 0~6A	0W 0.1% FS Dy del 00S /Res:1uS :100ppm 0.001~3A/uS 0~120V 10m V 0~60A	0.2%+ namic mode CC 100US~3 10uS 001~0.2/ Me: 0~18V 0~18V 0.1m V ±(0.025 0~12A	600W 10m V +0.2%F\$ model 600S /R S±100pp V/uS asuremen	V S om 0.01~1.6A/uS nt range 0~120V 1 mV 25%F S) 0~120A	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.18V 0.18V ±(0.02 0~24A	1500W %+0.2%FS C model 66005 /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 5% +0.025%FS ) 0~240A
V Measurement	Range Resolution Accuracy T1&T2 Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution	30 0.1% + CC mo 20 uS~360 2 uS= 0.0001~0.3A/uS 0~18V 1m V	0W 0.1% FS Dy del 00S /Res:1uS :100ppm 0.001~3A/uS 0~120V 10m V	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA	600W 10mV +0.2%FS model 600S /R S±100pp VuS asuremen % +0.0	V S on 0.01~1.6A/uS 0.01~1.6A/uS nt range 0~120V 1 mV 25%F S) 0~120A 10mA	0.2 C 100uS-3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA	1500W %+0.2%FS C model 6000S /Res:1 uS IS±100ppm 0.01~3.2A/uS 0~120V 1 mV 55 % + 0.025%F S ) 0~240A 10mA
V Measurement	Range Resolution Accuracy T1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy	30 0.1% + CC mo 20uS~360 2uS= 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA	0W 0.1% FS Dy del 00S /Res:1uS 100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA	600W 10m V +0.2%FS model 600S /R S±100pp VuS asuremen % +0.0	V S om 0.01~1.6A/uS nt range 0~120V 1 mV 25%F S) 0~120A	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6600S /Res:1 uS 18±100ppm 0.01~3.2A/uS 0~120V 1 mV 5% +0.025%FS ) 0~240A 10mA 5% +0.05%FS )
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Range	30 0.1% + CC mo 20 u S~36( 2u S 0.0001~0.3A/uS 0~18V 1m V 0~6A	0W 0.1% FS Dy del 00S /Res:1uS 100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA	0 ( 600W 10m ↓ +0.2%FS model 600S /R S±100pp √/uS asuremen % +0.0 5% +0.0 600W	V S om 0.01~1.6A/uS ont range 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS)	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6000S /Res:1 uS IS±100ppm 0.01~3.2A/uS 0~120V 1 mV 55 % + 0.025%F S ) 0~240A 10mA
V Measurement	Range Resolution Accuracy T1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Range Resolution	30 0.1% + CC mo 20 u S~36( 2u S 0.0001~0.3A/uS 0~18V 1m V 0~6A 0.1m A 300	0W 0.1% FS Dy del 005 /Res:1uS 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1 mA	0.2%+ namic mode CC 100US~3 10uS 0 001~0.2A Mex 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.05	600W 10m V +0.2%FS model 600S /R 5±100pp V/uS asurement 8±100pp V/uS 600W 10m V 10m V 10m V	V S om 0.01~1.6A/uS nt range 0~120V 1 mV 25%F S) 0~120A 10mA 10mA 10mA	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.18V 0.18V ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6600S /Res:1 uS 1600pm 0.01~3.2A/uS 0~120V 1 mV 15% +0.025%FS) 0~240A 10mA 5% +0.05%FS) 1500W
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Range	30 0.1% + CC mo 20uS~360 2uS= 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA	0W 0.1% FS Dy del 005 /Res:1uS 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1 mA	0.2%+ namic mode CC 100uS~3 10u1 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA ±(0.05	600W 10m V +0.2%FS model 600S /R 5±100pp VuS asurement % +0.0 % +0.0 5% +0.0 600W 10m V .2%+0.2	N S S m 0.01~1.6A/uS m ntrange 0~120V 1 mV 25%FS) 0~120A 10mA 10mA 15%FS)	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.18V 0.18V ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6600S /Res:1 uS 18±100ppm 0.01~3.2A/uS 0~120V 1 mV 5% +0.025%FS ) 0~240A 10mA 5% +0.05%FS )
V Measurement	Range Resolution Accuracy T1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Range Resolution	30 0.1% + CC mo 20 u S~36( 2u S 0.0001~0.3A/uS 0~18V 1m V 0~6A 0.1m A 300	0W 0.1% FS Dy del 005 /Res:1uS 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1 mA	0.2%+ namic mode CC 100uS~3 10u1 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA ±(0.05	600W 10mV 0.2%FS model 600S /R 5±100pp VuS % +0.0 600W 3% +0.0 600W 10mV 2%+0.2 Protection	V S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS) / / / // %FS) n range	0.2 C 100uS-3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6600S /Res:1 uS 85±100ppm 0.01~3.2A/uS 0~120V 1 mV 25% +0.025%FS ) 0~240A 10mA 5% +0.05%FS ) 1500W %+0.2%FS )
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Resolution   Accuracy   Over power protection	30 0.1% + CC mo 20 u S~36( 2u S 0.0001~0.3A/uS 0~18V 1m V 0~6A 0.1m A 300	0W 0.1% FS Dy del 1005 /Res:1uS 100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS)	0.2%+ namic mode CC 100u5-3 0001-0.2/ Mei 0~18V ±(0.025 0-12A 1mA ±(0.05 ±(0.05	600W 10m V +0.2%FS model 600S /R 5±100pp VuS asurement % +0.0 % +0.0 5% +0.0 600W 10m V .2%+0.2	V S om 0.01~1.6A/uS om 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS) 0 %FS) 1 range 0W	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05 ±(0.2 10u	1500W %+0.2%FS C model 6600S /Res:1 uS 1600pm 0.01~3.2A/uS 0~120V 1 mV 15% +0.025%FS) 0~240A 10mA 5% +0.05%FS) 1500W
V Measurement	Range Resolution Accuracy T1 & T2 Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy	30 0.1% + CC mo 20uS~36( 2uS= 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1% +0	0W 0.1% FS Dy del 1005 /Res:1uS 100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS)	0.2%+ namic mode CC 100uS~3 10u1 0 001~0.2A Mei 0~18V 0.1m V ±(0.025 0~12A 1mA ±(0.05	600W 10mV 0.2%FS model 600S /R 5±100pp VuS % +0.0 600W 3% +0.0 600W 10mV 2%+0.2 Protection	V S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS) / / / // %FS) n range	0.2 C 100uS-3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05	1500W %+0.2%FS C model 6600S /Res:1 uS 1S±100ppm 0.01~3.2A/uS 0~120V 1 mV 25% +0.025%FS) 0~240A 10mA 5% +0.05%FS) 1500W %+0.2%FS)
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Row power protection   Over current protection   Over voltage protection	30 0.1% + CC mo 20uS~360 2uS~ 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1% +0	0W 0.1% FS Dy del 00S /R es:1u S 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1mA W .1%FS) 0W	0.2%+ namic mode CC 100u5-3 0001-0.2/ Mei 0~18V ±(0.025 0-12A 1mA ±(0.05 ±(0.05	600W 10mV 0.2%FS model 600S /R 5±100pp VuS % +0.0 600W 3% +0.0 600W 10mV 2%+0.2 Protection	W S S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%F S) 0~120A 10mA 10mA 10mA 10mA 10mA 10mA 10mA 10	0.2 C 100uS~3 10u 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05 ±(0.2 10u	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 25 % +0.025%FS ) 0~240A 10mA 5% +0.05%FS ) 1500W %+0.2%FS)
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Over power protection   Over current protection	30 0.1% + CC mo 20uS~360 2uS~ 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1% +0	0W 0.1% FS Dy del 00S /R es:1u S 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1mA W .1%FS) 0W	0.2%4 namic mode CC 100uS~3 10u£ 0 001~0.2A Mee 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05	600W 10mV 0.2%FS model 600S /R 5±100pp AuS asurement % +0.0 600W 10mV 2%+0.2 Protection ≒ 620	W S S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%F S) 0~120A 10mA 10mA 10mA 10mA 10mA 10mA 10mA 10	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05 ±(0.2 ±(0.2 1mA ±(0.05) ±(0.2 1mA ±(0.05) ±(0.2) 1mA ±(0.05) ±(0.2) 1mA ±(0.05) 1mA ±(0.05) 1mA 1mA 1mA 1mA 1mA 1mA 1mA 1mA	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 25 % +0.025%FS ) 0~240A 10mA 5% +0.05%FS ) 1500W %+0.2%FS)
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Row power protection   Over current protection   Over voltage protection	30 0.1% + CC mo 20uS~36( 2uS= 0.0001~0.3A/uS 0~18∨ 1m∨ 0~6A 0.1mA 300 ±(0.1% +0 ≒32 ≒ 6.5A	0W 0.1% FS Dy del 00S /R es:1u S 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1mA W .1%FS) 0W	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Me: 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05	( 600W 10mV +0.2%FS model 600S /RS ±100pp VuS asuremen % +0.0 600W 10mV 2%+0.2 Protection ≒ 620 ≒ 125V	V S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS) 0~5%FS) ( %FS) n range DW ≒130A	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05 ±(0.2 ±(0.2 1mA ±(0.05) ±(0.2 1mA ±(0.05) ±(0.2) 1mA ±(0.05) ±(0.2) 1mA ±(0.05) 1mA ±(0.05) 1mA 1mA 1mA 1mA 1mA 1mA 1mA 1mA	1500W %+0.2%FS C model 8600S /Res:1 uS IS±100pm 0.01~3.2A/uS 0~120V 1 mV 5% +0.025%FS ) 0~240A 10mA 5% +0.05%FS ) 1500W ≒.267A
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Row power protection   Over current protection   Over voltage protection	30 0.1% + CC mo 20uS~36( 2uS= 0.0001~0.3A/uS 0~18∨ 1m∨ 0~6A 0.1mA 300 ±(0.1% +0 ≒32 ≒ 6.5A	0W 0.1% FS Dy del 00S /R es:1u S 100ppm 0.001~3A/uS 0~120V 10m V 0~60A 1mA W .1%FS) 0W	0.2%+ namic mode CC 100uS~3 10uS 0 001~0.2A Me: 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05	600W 10mV +0.2%FS model 600S /R 3±100pp VuS asurement % +0.0 5% +0.0 600W 10mV 20%+0.2 Protection ≒ 620 = 125V = 95°C	V S m 0.01~1.6A/uS mt range 0~120V 1 mV 25%FS) 0~120A 10mA 15%FS) 0~5%FS) ( %FS) n range DW ≒130A	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.05 ±(0.2 ±(0.2 1mA ±(0.05) ±(0.2 1mA ±(0.05) ±(0.2) 1mA ±(0.05) ±(0.2) 1mA ±(0.05) 1mA ±(0.05) 1mA 1mA 1mA 1mA 1mA 1mA 1mA 1mA	1500W %+0.2%FS C model 6600S /Res:1 uS IS±100ppm 0.01~3.2A/uS 0~120V 1 mV 5% +0.025%FS ) 0~240A 10mA 5% +0.05%FS ) 1500W ∵_267A
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Over power protection   Over current protection   Over voltage protection   Over temperature protection	30 0.1% + CC mo 20uS~360 2uS 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1% +0 ≒ 32 ≒ 6.5A ≒ 85 °C	0 W 0.1% FS Dyi del 00 S / R e s: 1 u S 100 ppm 0.001~3A/uS 0~120V 10 m V 0~60A 1 m A W .1% FS) 0W ≒ 65A	0.2%+ namic mode CC 100u5-3 001-0.2/ Mei 0~18V ±(0.025 0~12A 1mA ±(0.05 ±(0.05 ±(0.05) ±(0.05)	600W 10mV	W S S om 0.01~1.6A/uS om 0~120V 1 mV 25%FS) 0~120A 10mA 10mA 10mA 15%FS) 0 %FS) n range 0W S S S S S S S S S S S S S S S S S S	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.02 ±(0.2 ±(0.2 ±(0.2) ±(0.2)	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 25% +0.025%FS) 0~240A 10mA 5% +0.05%FS) 1500W ≈267A 85 °C
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Range   Resolution   Accuracy   Range   Resolution   Accuracy   Range   Resolution   Accuracy   Over power protection   Over current protection   Over voltage protection   Over temperature protection   Over temperature protection	30 0.1% + CC mo 20uS~360 2uS 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1% +0 ≒ 32 ≒ 6.5A ≒ 85 °C	0 W 0.1% FS Dy del 00 S / R es:1 u S 100 ppm 0.001~3A/uS 0~120 V 10 m V 0~60 A 1 m A W .1% FS) 0W ≒ 65 A ≒ 65/60 A	0.2%4 namic mode CC 100uS~3 10uú 0 001~0.2A Mei 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.025 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05 0~12A 1mA	( 600W 10mV 10mV 10mV 10mV 600S/RS ±100pp VuS asurement % +0.0 600W 10mV 2%+0.2 For text of the second sec	W S S om 0.01~1.6A/uS om 0~120V 1 mV 25%FS) 0~120A 10mA 10mA 10mA 15%FS) 0 %FS) n range 0W S S S S S S S S S S S S S S S S S S	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.02 ±(0.2 ±(0.2 ±(0.2) ±(0.2)	1500W %+0.2%FS C model 6600S /Res:1 uS iS±100ppm 0.01~3.2A/uS 0~120V 1 mV 25% +0.025%FS) 0~240A 10mA 5% +0.05%FS) 1500W ≈267A 85 °C
V Measurement	Range   Resolution   Accuracy   T1 & T2   Accuracy   Rising / falling slope   Range   Resolution   Accuracy   Curacy   Over power protection   Over temperature protection   Over temperature protection   Current(CA)   Voltage(CV)	30 0.1% + CC mo 20uS~36( 2uS= 0.0001~0.3A/uS 0~18∨ 1mV 0~6A 0.1mA 300 ±(0.1% +0 ≒32 ≒ 6.5A ≒85°C ≒ 6.5/6A	0 W 0.1% FS Dy del 00 S / R es:1 u S 100 ppm 0.001~3A/uS 0~120 V 10 m V 0~60 A 1 m A W .1% FS) 0W ≒ 65 A ≒ 65/60 A	0.2%4 namic mode CC 100uS~3 10uú 0 001~0.2A Mei 0~18V 0.1mV ±(0.025 0~12A 1mA ±(0.025 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05 0~12A 1mA ±(0.05 0~12A 1mA	( 600W 10mV +0.2%FS model 600S/RS ±100pp VuS asurement % +0.0 600W 10mV 20%+0.2 Foreition = 620 = 125V = 95°C Specification - 15mΩ	W S S om 0.01~1.6A/uS om 0~120V 1 mV 25%FS) 0~120A 10mA 10mA 10mA 15%FS) 0 %FS) n range 0W S S S S S S S S S S S S S S S S S S	0.2 100uS~3 100 0.001~0.3A/uS 0~18V 0.1mV ±(0.02 0~24A 1mA ±(0.02 ±(0.2 ±(0.2 ±(0.2 ±(0.2) ±(0.2) ±(0.2) ±(0.2)	1500W %+0.2%FS C model 6600S /Res:1 uS IS±100pm 0.01~3.2A/uS 0~120V 1 mV 55 % + 0.025%FS ) 0~240A 10mA 5% + 0.05%FS ) 1500W %+0.2%FS ) 1500W ≈ 267A ≈ 5°C ≈ 267/240A