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 0 V	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

IT8500+ Electronic load

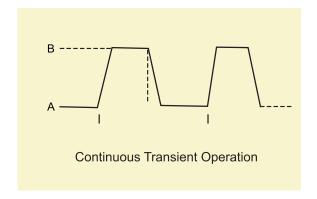


Transient Mode

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.

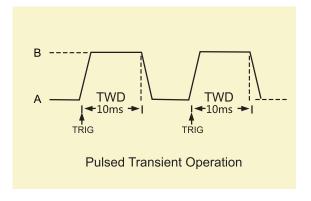
■ Continuous Mode

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.



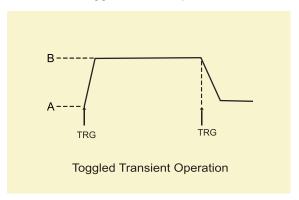
■ Pulse Mode

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



■ 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			

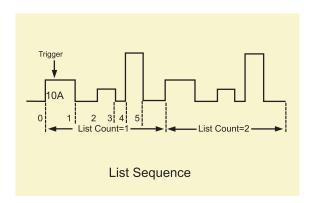


IT8500+ Electronic load

List mode

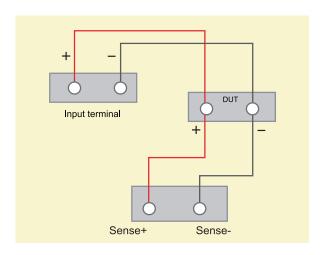
List mode allows you to generate a complex current sequence . Moreover , the mode change can be synchronized with an internal or external singal , to accomplish dynamic and precise test which can save cost for users.

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

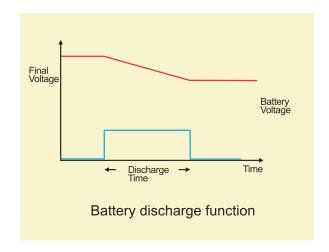
When working in CC , CV , CW and CR mode , if the electronic load consumes a very large current , it will cause a voltage drop in the leads between the connected device and terminals of the electronic load . In order to ensure testing accuracy , the electronic load provides a pair of remote sensing terminals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



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IT8500+ Electronic load



IT8500+Specification

Input Rating	Voltage	IT8511 0~120			512+ 20V	IT8512E 0~500\	
input Nating	Current	0~3A	0~30A	0~3A	0~30A	0~3A	0~15A
(0~40°C)	Power		0 W	300		300	
(0~400)	Minimum operating voltage		1.4V at 30A	0.12V at 3A	1.2V at 30A	0.6V at 3A	3V at 15A
OV/M-d-	Range	0~18V	0~120V	0~18V	0~120V		0~500V
CV Mode	Resolution	1mV	10mV			0~50V 1mV	
		±(0.05% +0.02%FS)	±(0.05% +0.025%FS)	1mV ±(0.05%+0.02%FS	10mV ±(0.05%+0.025%FS)	±(0.05% +0.02%FS)	10mV ±(0.05% +0.025%
CC Mada	Accuracy					0~3A	
CC Mode	Range	0~3A	0~30A	0~3A	0~30A		0~15 A
	Resolution Accuracy	0.1m A	1mA	0.1mA	1mA	0.1mA	1m A
	•	0.050.400	100 7 510	±(0.05% +0.			
CR Mode	Range	0.05Ω~10Ω	10Ω~7.5ΚΩ	0.05Ω~10Ω	10Ω~7.5ΚΩ	0.3Ω~10Ω	10Ω~7.5ΚΩ
	Resolution			16bit			
	Accuracy	0.01%+0.08S	0.01% +0.0008S	0.01%+0.08S	0.01%+0.0008S	0.01%+0.08S	0.01%+0.0008
CP Mode	Range		150W	300W		300W	
	Resolution			10 m W			
	Accuracy	0.1%+0.1	%FS		+0.1%FS	0.1%+0.1%	FS
				Dynamic mode			
		CC	model	CC mod		CC n	nodel
Dynamic mode	T1&T2				OS/Res:1uS		
	Accuracy				00ppm		
	Rising / falling slope	0.0001~0.3A/uS	0.001~1.5A/uS	0.0001~0.3A/uS	0.001~1.5A/uS	0.0001~0.3A/uS	0.001~0.8A/uS
				Measureme	ent range		
/ Measurement	Range	0~18V	0~120V	0~18V	0~120V	0~50V	0~500V
	Resolution	0.1mV	1mV	0.1mV	1mV	1mV	10mV
	Accuracy				5% +0.025%FS)		
Measurement	Range	0~3A	0~30A	0~3A	0~30A	0~3A	0~15A
saca. smont	Resolution	0.1m A	1mA	0.1mA	1mA	0.1 mA	1mA
	Accuracy	J. 11117 1			+0.05%FS)	J	1110
V Measurement	Range	450	110/		,	300W	
v ividasurerrient	Range	150	V V V	300		30000	
		. (0.10)	10/ 50)	10n		. (0.4.0/ +0.40/ 50)	
	Accuracy	±(0.1% +0	1.1%F5)	±(0.1% +0.1	·	±(0.1%+0.1	7015)
				Protection	on range		
	Over power protection	≒16		≒320W		≒ 320W	
	Over current protection	≒3.3A	≒33A	≒3.3A	≒33A	≒3.3A	≒16A
	Over voltage protection		<u></u>	125V		≒ 530V	
	Over temperature protection			≒ 85 °C		≒85°C	
				Specif	ication		
Short circuit	Current(CA)	≒3.3/3A	≒33/30A	≒3.3/3A	≒33/30A	≒3.3/3A	≒ 16/15A
	Voltage(CV)			0V			
	Resistance(CR)	≒ 45	īmΩ	≒40mΩ		≒180mΩ	
	Input impedance			150ΚΩ			
Dimention (W*D*H)			214.5mm*354.6i	mm*88.2mm		214.5mm*354.6	3mm*88.2mm
		,					
		IT85			8513C+	IT8514	
Input Rating	Voltage	0~12			20V	0~120	
							0~240A
	Current	0~6A	0~60A	0~12A	0~120A	0~24A	
(0~40°C)	Power	300	W		0 W	1500)W
(0~40°C)						0.25V at 24A	0W 2.5V at 240A
(0~40°C)	Power	300	W	60	0 W	1500)W
	Power Minimum operating voltage	300° 0.25V at 6A	W 2.5V at 60A	0.2V at 12A	0W 2V at 120A	0.25V at 24A	0W 2.5V at 240A
	Power Minimum operating voltage Range	300° 0.25V at 6A 0~18V	W 2.5V at 60A 0~120V	0.2V at 12A 0~18V 1mV	0W 2V at 120A 0~120V	1500 0.25V at 24A 0~18V	2.5V at 240A 0~120V 10mV
	Power Minimum operating voltage Range Resolution	300° 0.25V at 6A 0~18V 1mV	W 2.5V at 60A 0~120V 10mV	0.2V at 12A 0~18V 1mV	0W 2V at 120A 0~120V 10mV	1500 0.25V at 24A 0~18V 1mV	2.5V at 240A 0~120V 10mV
CV Mode	Power Minimum operating voltage Range Resolution Accuracy Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A	60 0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS)	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS)	2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A
CV Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS)	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS)	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A	2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F
CV Mode CC Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA	60 0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS)	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA	2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA
CV Mode CC Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+ 0.05Ω~10Ω	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5ΚΩ	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A	2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A
CV Mode CC Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution	300 ¹ 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+ 0.05Ω~10Ω 16	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω	2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ
CC Mode CR Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S	0.2V at 12A 0~18V 1mV ±(0.05% +0.02%FS) 0~12A 1mA ±(0.05% +0.02%FS) 1mA 0.05Ω~10Ω 16 0.01%+0.08S	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S	0W 2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A 10mA 10Ω~7.5KΩ 0.01%+0.0008S
CC Mode CR Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.05%+0.05%+0.05Ω~10Ω 16 0.01%+0.08S	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0.01%+0.0008S
CC Mode CR Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+ 0.05Ω~10Ω 16 0.01%+0.08S 600 10	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S
CC Mode CR Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+ 0.05Ω~10Ω 16 0.01%+0.08S 600 100 0.2%+0.29	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S
CC Mode CR Mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS
CV Mode CC Mode CR Mode CW Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.0W Dyr	$\begin{array}{c} 60 \\ 0.2 \text{V at } 12 \text{A} \\ 0 \sim 18 \text{V} \\ 1 \text{mV} \\ \pm (0.05\% + 0.02\% \text{FS}) \\ 0 \sim 12 \text{A} \\ 1 \text{mA} \\ \pm (0.05\% + 0.050\% + 0.050\% + 0.050\% + 0.050\% + 0.050\% + 0.005\% \\ 0.01\% + 0.088 \\ 600 \\ 10 \\ 0.2\% + 0.29 \\ \text{namic mode} \\ \\ \text{CC mode} \end{array}$	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S bW m W 6FS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS oddel
CV Mode CC Mode CR Mode CW Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W 0.1%FS Dyr oddl 0.05 /Res:1uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.2% namic mode CC mode 100uS~3600S	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W 6FS el 6/Res:1 uS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0 0.2%FS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CV Mode CC Mode CR Mode CW Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 300° 0.1%+ CC mo 20uS~366	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W 0.01% FS Dyn odd 0.00S /Res:1uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS-3600S 10uS±10	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W 6FS el 6/Res:1 uS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1	0W 2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS odel S /Res:1 uS 00ppm
CV Mode CC Mode CR Mode CW Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W 0.1%FS Dyr oddl 0.05 /Res:1uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.2% namic mode CC mode 100uS~3600S	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W 6FS el 6/Res:1 uS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0 0.2%FS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CV Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 300° 0.1%+ CC mo 20uS~366	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W 0.01% FS Dyn odd 0.00S /Res:1uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2A/uS Measure	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S DW m W 6FS el 6/Res:1 uS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS	0W 2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS odel S /Res:1 uS 00ppm
CV Mode CC Mode CR Mode CW Mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 300° 0.1%+ CC mo 20uS~366	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W 0.01% FS Dyn odd 0.00S /Res:1uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS~110 0 001~0.2A/uS	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6/Res:1 uS 00ppm 0.01~1.6A/uS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S)W 0.2%FS odel S /Res:1 uS 00ppm
CV Mode CC Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36f 2uS- 0.0001~0.3A\uS	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0W Dyn del 0.05 /Res:1uS ±100ppm 0.001~3A/uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2A/uS Measure	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 10mA 0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S bW mW 6FS el i /Res:1 uS 0ppm 0.01~1.6A/uS ment range	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0 00ppm 0.01~3.2A/uS
CV Mode CC Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy T1&T2 Accuracy Rising / falling slope Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS- 0.0001~0.3A/uS	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 10W Dyr del 0.05 / Res:1u S ±100ppm 0.001~3A/uS 0~120V	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.00000000000000000000000000000000	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CV Mode CC Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A/uS 0~18V 1mV	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.1% FS Dyr oldel 0.05 /Res:1uS ±100ppm 0.001~3A/uS 0~120V 10mV	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 1.0 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS~10 0 001~0.2A/uS Measure 0~18V 0.1mV	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 00del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV
CCV Mode CCR Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~366 2uS- 0.0001~0.3A/uS 0~18V 1mV 0~6A	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0W Dyn 0.01% FS Dyn 0.001~3A/uS 10.001~3A/uS 0~120V 10mV 0~60A	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10S Measure 0~18V 0.1mV ±(0.025%+0	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 10mA 0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S bW m W 6FS el i /Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0.025%FS) 0~120A	1500 0.25V at 24A 0-18V 1mV ±(0.05%+0.02%FS) 0-24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025%	2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS odel S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A
CCV Mode CCR Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A/uS 0~18V 1mV	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.1% FS Dyr oldel 0.05 /Res:1uS ±100ppm 0.001~3A/uS 0~120V 10mV	0.2V at 12A 0~18V 1mV ±(0.05% +0.02%FS) 0~12A 1mA ±(0.05% +0.02%FS) 10.05Ω~10Ω 16 0.01%+0.08S 600 1.0 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0.01~0.2A/uS Measure 0~18V 0.1mV ±(0.025% +0.0	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W m W 6FS el 6/Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA	DW 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S DW 0.2%FS 0.2%FS 0.2%FS 0.00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025% F S) 0~240A 10mA
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.1% FS 00S /Res:1uS ±100ppm 0.001~3A\u00b 0~120V 10mV 0~60A 1mA	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS~110 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+(0~12A) 1mA ±(0.05%+(0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6/Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS)	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05%+	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 000el S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025% F S) 0~240A 10mA 0.05% F S)
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~366 2uS- 0.0001~0.3A/uS 0~18V 1mV 0~6A	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.1% FS 00S /Res:1uS ±100ppm 0.001~3A\u00b 0~120V 10mV 0~60A 1mA	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2AuS Measure 0~18V 0.1mV ±(0.025%+0.29) 1mA ±(0.05%+0.20) 1mA ±(0.05%+0.20)	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el //Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS)	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 000el S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025% F S) 0~240A 10mA 0.05% F S)
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~366 2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0W 0.01%FS 0yr 0.000PM 0.001~3A/uS 0~120V 10mV 0~60A 1 mA	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.08S 600 10 0.29+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 01~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+1 0~12A 1mA ±(0.05%+1 600 10r	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 10mA 0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S bW m W 6FS el i /Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0~10mA 0.05%FS) 0~10mA	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05%+ 1500	2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS)
CV Mode CC Mode CR Mode CW Mode Dynamic mode / Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0W 0.01%FS 0yr 0.000PM 0.001~3A/uS 0~120V 10mV 0~60A 1 mA	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 10.05Ω~10Ω 16 0.01%+0.08S 60(10 0.2%+0.2% namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+(0~12A 1mA ±(0.05%+(0.05%+(0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA +0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W m W 6FS 6I 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~10mA 0.05%FS) W mW 0.05%FS)	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05%+	2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS)
CV Mode CC Mode CR Mode CW Mode Dynamic mode	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.01% FS 00S /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1mA W .1%FS)	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.08S 600 10 0.20%+0.28 namic mode CC mode 100uS~130 0 100S~130 0 01~0.2A/uS Measure 0~18V 1mA ±(0.05%+0.20%+0	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) W 0.025%FS) 0~10mA 0.05%FS) W 0.2%FS) US 0.2%FS) US 0.2%FS) US 0.2%FS) US 0.25%FS) US 0.2%FS) US 0.2%FS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05%+ 1500 ±(0.2%+0)	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 00del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W 0.2%FS)
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Ronge Resolution	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.00 /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS 0.00V 0	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2AuS Measure 0~18V 0.1mV ±(0.025%+	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA 0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el //Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0~120A 10mA 0.05%FS) 0%FS) 0%FS) 0%FS) 0%FS)	1500 0.25V at 24A 0-18V 1mV ±(0.05%+0.02%FS) 0-24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.01~0.3A/uS 0~18V 0.1mV ±(0.025% 4(0.2%+0.02%FS) ±(0.2%+0.025%) 1500 1500 1500 1500 1500 1500 1500 150	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 000ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Cover power protection Over current protection	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.01% FS 00S /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1mA W .1%FS)	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.08S 600 10 0.20%+0.28 namic mode CC mode 100uS~130 0 100S~130 0 01~0.2A/uS Measure 0~18V 1mA ±(0.05%+0.20%+0	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) W 0.025%FS) 0~10mA 0.05%FS) W 0.2%FS) US 0.2%FS) US 0.2%FS) US 0.2%FS) US 0.25%FS) US 0.2%FS) US 0.2%FS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05%+ 1500 ±(0.2%+0)	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 00del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W 0.2%FS)
CV Mode CC Mode CR Mode CW Mode Dynamic mode / Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Over power protection Over voltage protection	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.00 /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS 0.00V 0	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 0.05Ω~10Ω 16 0.01%+0.08S 600 10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2AuS Measure 0~18V 0.1mV ±(0.025%+	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 6/Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0~130A	1500 0.25V at 24A 0-18V 1mV ±(0.05%+0.02%FS) 0-24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.01~0.3A/uS 0~18V 0.1mV ±(0.025% 4(0.2%+0.02%FS) ±(0.2%+0.025%) 1500 1500 1500 1500 1500 1500 1500 150	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 000ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Cover power protection Over current protection	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.00 /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS 0.00V 0	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 600 1.0 0.29%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0.01*~0.2A/uS Measure 0~18V 0.1mV ±(0.025%++ 600 10m ±(0.05%++ 600 10m ±(0.	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6I 6/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) W nW 0.025%FS) 0~120A 10mA 0.05%FS) tion range 620W ±130A	1500 0.25V at 24A 0-18V 1mV ±(0.05%+0.02%FS) 0-24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.01~0.3A/uS 0~18V 0.1mV ±(0.025% 4(0.2%+0.02%FS) ±(0.2%+0.025%) 1500 1500 1500 1500 1500 1500 1500 150	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W 0.2%FS
CV Mode CC Mode CR Mode CW Mode Dynamic mode / Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Over power protection Over voltage protection	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.00 /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS 0.00V 0	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.08S 600 10 0.20%+0.28 namic mode CC mode 100uS-3600S 10uS±10 0 001~0.2A/uS Measure 0~18V ±(0.025%+0.20) 1mV ±(0.025%+0.20) 1mA ±(0.05%+0.20) 1mA ±(0.05%+0.20) 10r ±(0.2%+0.20) 10r 113A	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 1/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) W nW 0.025%FS) 0~120A 10mA 0.05%FS) UN tition range 620W =130A	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 1500 ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0)	DW 2.5V at 240A 0-120V 10mV ±(0.05%+0.025% F 0-240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S DW 2.2%FS 00del S/Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025% F S) 0~240A 10mA 0.05% F S) DW 2.2%FS 0.05% F S) 0.05% F S) DW 0.2%FS
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement W Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Over power protection Over voltage protection Over temperature protection	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA W 1.0%FS) 0~60A 1mA W 1.0%FS) 0.001% +0.0008S 0.000 0.001~3A/uS	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 1005Ω~10Ω 16 0.01%+0.08S 600 10 0.22%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+0.025%	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 6/Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0~130A 55VC ication	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05% + 1500 ±(0.2%+0) =1500 ±(0.2%+0) =1500 ±(0.2%+0) =1500	DW 2.5V at 240A 0~120V 10mV ±(0.05%+0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S DW 0.2%FS DOGE S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) DW 0.2%FS
CV Mode CC Mode CR Mode CW Mode Dynamic mode V Measurement W Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Cover power protection Over current protection Over temperature protection Current(CA)	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 0.00 /R es:1uS ±100ppm 0.001~3A/uS 0~120V 10mV 0~60A 1 mA W .1%FS 0.00V 0	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 60(10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10) 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+(0~12A 1mA ±(0.05%+) 600 10r ±(0.2%+) Protec = =13A	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS el 1/Res:1 uS 00ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) W nW 0.025%FS) 0~120A 10mA 0.05%FS) UN tition range 620W =130A	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 1500 ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0) ±(0.2%+0)	0W 2.5V at 240A 0~120V 10mV ±(0.05%+0.025%F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S /Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0~240A 10mA 0.05%FS) 0W 0.2%FS
CCV Mode CC Mode CR Mode CW Mode CW Mode V Measurement V Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Cover power protection Over voltage protection Over temperature protection Current(CA) Voltage(CV)	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~360 2uS~ 0.0001~0.3A/uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.05%FS 00W 0.001%+0.0008S 00S /Res:1uS ±100ppm 0.001~3A\sqrt{uS} 0~120V 10mV 0~60A 1mA W .1%FS 20W = 65A	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%+0.02%FS) 10.05Ω~10Ω 16 0.01%+0.08S 600 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+0.20) 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6FS 6 //Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0w 10mA 0.05%FS) 0~120A 10mA 0.05%FS) 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 1500 ±(0.2%+0) ±(0	2.5V at 240A 0-120V 10mV ±(0.05%+0.025%F 0-240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S 0W 0.2%FS 0del S5 //Res:1 uS 00ppm 0.01~3.2A/uS 0~120V 1 mV +0.025%FS) 0.2%FS 0.25%FS 0.25%FS 0.260A 0.25%FS
CV Mode CC Mode CR Mode CW Mode Dynamic mode / Measurement	Power Minimum operating voltage Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Range Resolution Accuracy Rising / falling slope Range Resolution Accuracy Cover power protection Over current protection Over temperature protection Current(CA)	300° 0.25V at 6A 0~18V 1mV ±(0.05%+0.02%FS) 0~6A 0.1mA 0.05Ω~10Ω 0.01%+0.08S 30 0.1%+ CC mo 20uS~36(2uS- 0.0001~0.3A\uS 0~18V 1mV 0~6A 0.1mA 300 ±(0.1%+0	W 2.5V at 60A 0~120V 10mV ±(0.05%+0.025%FS) 0~60A 1mA 10Ω~7.5KΩ 0.01%+0.0008S 00W 0.05%FS 00W 0.001%+0.0008S 00S /Res:1uS ±100ppm 0.001~3A\sqrt{uS} 0~120V 10mV 0~60A 1mA W .1%FS 20W = 65A	0.2V at 12A 0~18V 1mV ±(0.05%+0.02%FS) 0~12A 1mA ±(0.05%-10Ω 16 0.01%+0.08S 60(10 0.2%+0.29 namic mode CC mode 100uS~3600S 10uS±10) 0 001~0.2A/uS Measure 0~18V 0.1mV ±(0.025%+(0~12A 1mA ±(0.05%+) 600 10r ±(0.2%+) Protec = =13A	0W 2V at 120A 0~120V 10mV ±(0.05%+0.025%FS) 0~120A 10mA -0.05%FS) 10Ω~7.5KΩ bit 0.01%+0.0008S 0W mW 6FS 6FS 6 //Res:1 uS 0ppm 0.01~1.6A/uS ment range 0~120V 1 mV 0.025%FS) 0~120A 10mA 0.05%FS) 0w 10mA 0.05%FS) 0~120A 10mA 0.05%FS) 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS 0%TS	1500 0.25V at 24A 0~18V 1mV ±(0.05%+0.02%FS) 0~24A 1mA 0.05Ω~10Ω 0.01%+0.08S 1500 0.2%+0 CC m 100uS~3600 10uS±1 0.001~0.3A/uS 0~18V 0.1mV ±(0.025% 0~24A 1mA ±(0.05% + 1500 ±(0.2%+0) =1500 ±(0.2%+0) =1500 ±(0.2%+0) =1500	DW 2.5V at 240A 0~120V 10mV ±(0.05% +0.025% F 0~240A 10mA 10Ω~7.5KΩ 0 01%+0 0008S DW 0.2%FS DOGE 0.2120V 1 mV +0.025% F S) 0~240A 10mA 0.05% F S) DW 0.2%FS