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UTL8500+/UTL8500X+ Series DC Electronic Load

Datasheet

V1.3

November 2025

1. Key Features

- 4.3 inch LCD, all the test results at a glance
- Synchronous sampling of 500 kHz, 10Hz, 10uA, 0.1 mV stable resolution output
- Dynamic mode (DYNA) of 50 kHz pull load, the waveform of current and voltage peak can be observed directly (UTL8500X+ series), Vpp, Ipp measurement
- Realistic simulation of LED function
- Basic mode: CC, CV, CR and CP
- Supports OCP test and maximum power test
- Supports time measurement (TIME)
- Supports OVP test
- Supports intelligent and programmable automated list test (LIST)

2. Product Overview

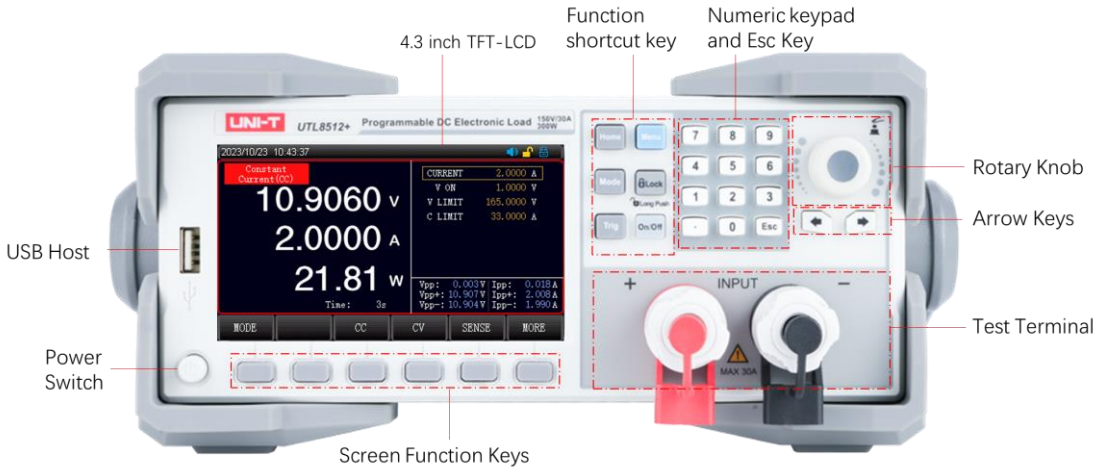
UTL8500+ (UTL8511+/UTL8512+) and UTL8500X+ series (UTL8511A+/11B+/UTL8512A+/12B+/UTL8513A+/13B+/UTL8514B+/14C+/UTL8516B+/16C+) DC electronic load are a new generation of intelligent, large-screen and cost-effective electronic loads. The synchronizing sampling is up to 500 kHz, with high-performance DSP processing, built-in self-adaptive voltage and current waveform display (UTL8500X+ series), convenient for transient testing and multi-faceted intelligent simulation and analysis. Fast, efficient, visualized LIST programmable automated test modes for most R&D and test needs.

Automatic application: power, charger, driver, batter

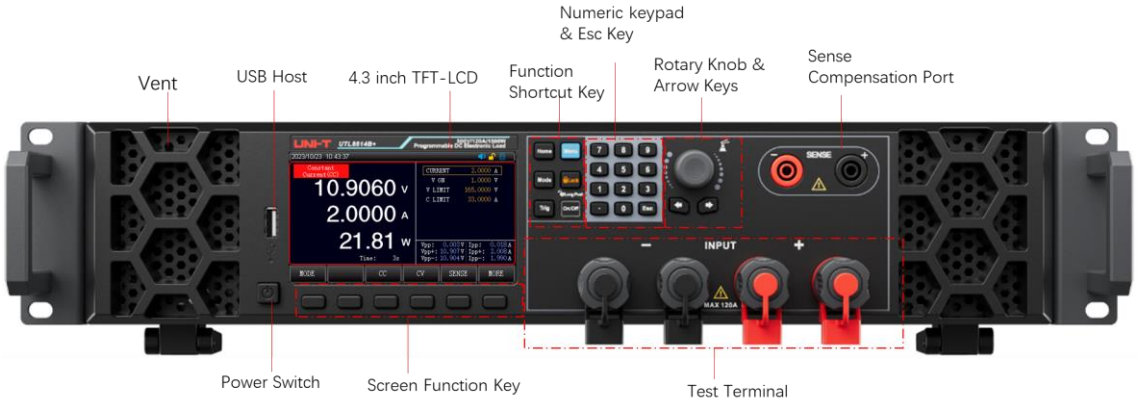
Serial connection application: overcurrent test, programmable constant current, 5 1/2 digit ampere meter, current waveform detection

Other applications: LED simulation, battery simulation, intelligent and programmable automated test

Front Panel(UTL8511+/11A+/11B+/12+/12A+/12B+/13A+/13B+)

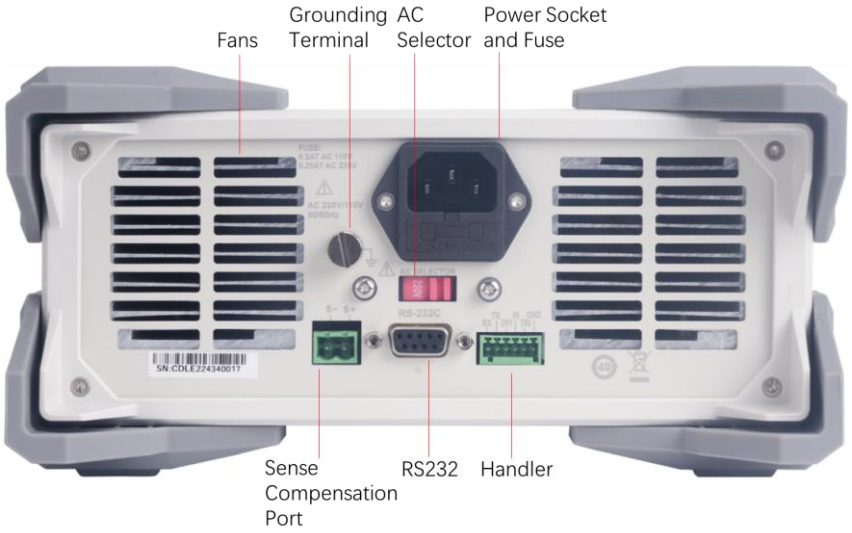


Front Panel(UTL8514B+/14C+)

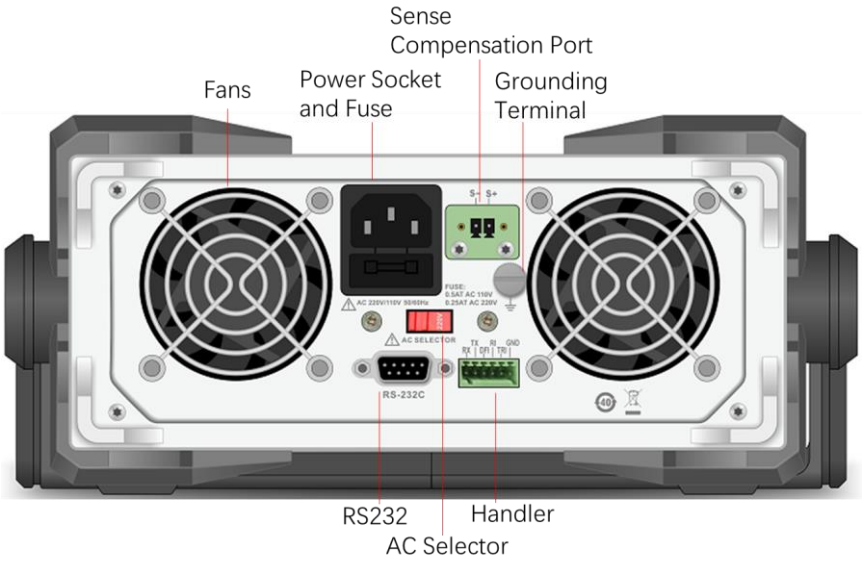


Front Panel(UTL8516B+/16C+)

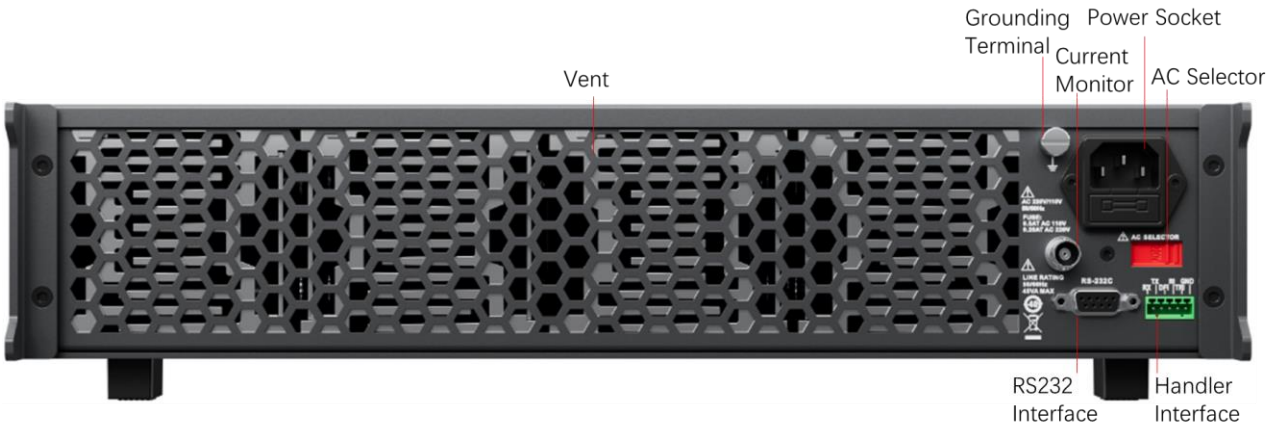
Rear Panel (UTL8511+/11A+/11B+/UTL8512+/12A+/12B+)



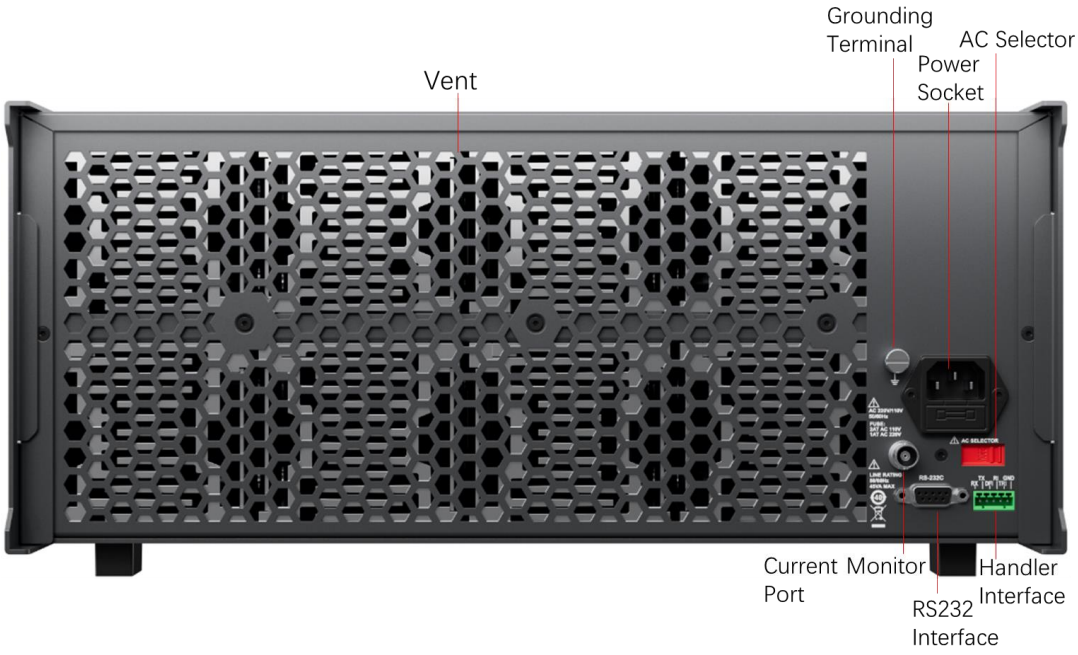
Rear Panel (UTL8513A+/13B+)



Rear Panel (UTL8514B+/14C+)



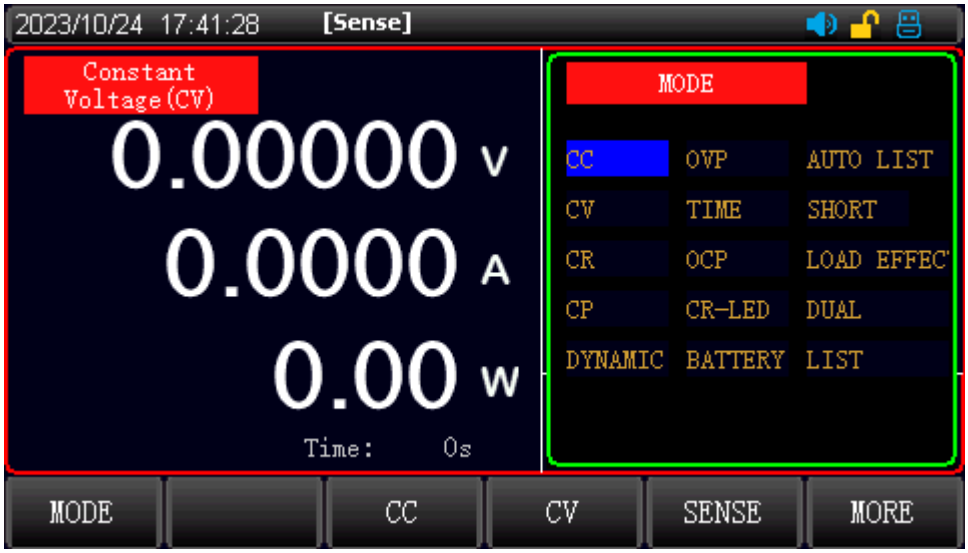
Rear Panel (UTL8516B+/16C+)



3. Design Highlights

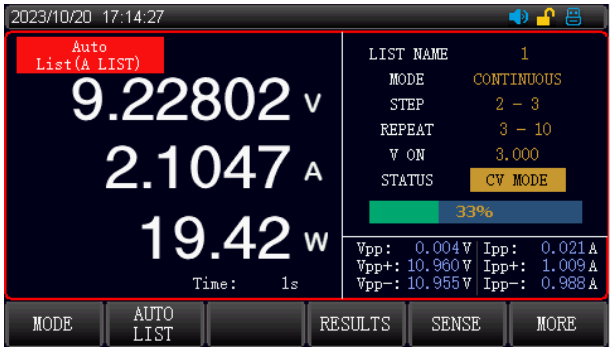
Multiple Modes

The electronic load has four constant test mode, which are CC (constant current), CV (constant voltage), CR (constant resistance) and CP (constant power). In addition, it has 11 kinds of other modes, which are dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short-circuit, load effect, combination and list.



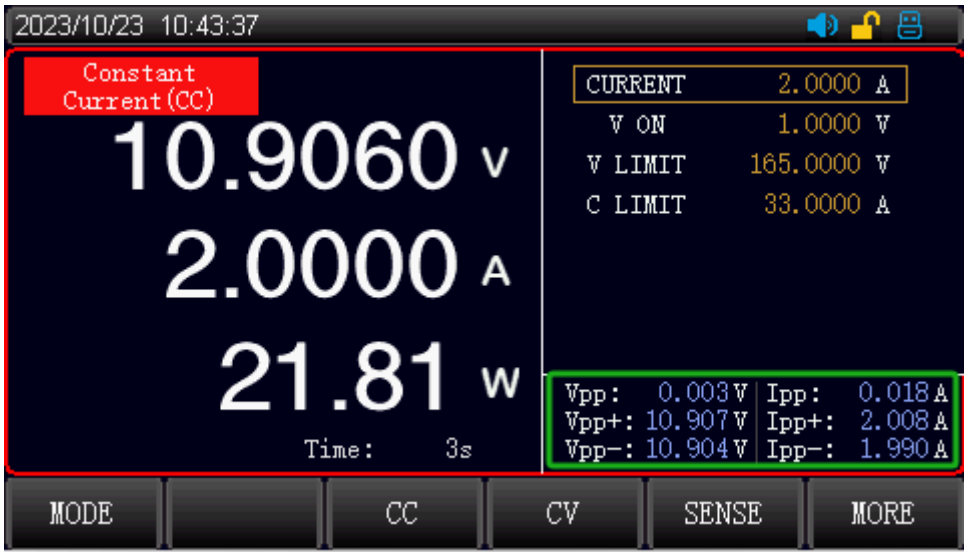
Automatic List Test

The automatic list test can be performed by setting the appropriate load voltage and combination list in the parameter setting.



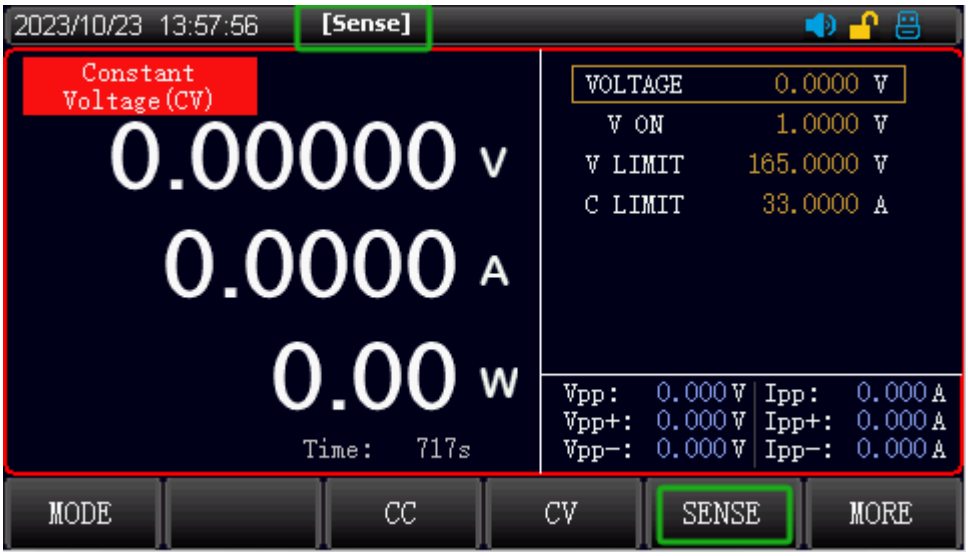
Ripple Display

The ripple wave is displayed in the right corner of the screen.



Sense Terminal

In CC/CV/CR/CP test, when the electronic load consumes a large current, it will generate a large voltage drop between the electronic load and the DUT's connecting wire. To ensure an accurate measurement, the electronic load provides a Sense terminal in the rear panel, the terminal can measure the accurate voltage of the DUT's output terminal.



Real-time Waveform

UTL8500X+ series has real-time waveform display function, press the function key [WAVE] at the bottom of the screen to check the voltage and current waveform.

4.Specifications

Series		UTL8500+ Series			
Model		UTL8511+		UTL8512+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~15V	0~150V	0~15V	0~150V
	Input current	0~3A	0~30A	0~3A	0~30A
	Input power	150W		300W	
	Minimum of operating voltage	1.4V±0.1V at 30A		1.4V±0.1V at 30A	
CV (Constant Voltage) mode	Range	0.1~150V		0.1~150V	
	Resolution	1mV		1mV	
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CC (Constant Current) mode	Range	0~3A	0~30A	0~3A	0~30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03+0.05%FS)		± (0.03%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω~10kΩ		0.05Ω~10kΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP (Constant Power) mode	Range	150W		300W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Dynamic mode	T1&T2	10μS~50S/Res:1μS		10μS~50S/Res:1μS	
	Accuracy	1μS/1mS±100ppm		1μS/1mS±100ppm	
	Rising/falling slope	0.0006A/μS-3A/μS		0.0006A/μS~3A/μS	
	Minimum of rising time	10μs		10μs	
CC/CP Readback voltage	Range	0~15V	0~150V	0~15V	0~150V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV
	Accuracy	± (0.02%+0.03%FS)		± (0.02%+0.3%FS)	
CV/CR Readback voltage	Range	0~150V		0~150V	
	Resolution	0.1mV		0.1mV	
	Accuracy	± (0.02%+0.03%FS)		± (0.02%+0.3%FS)	
Readback current	Range	0~3A	0~30A	0~3A	0~30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
Readback power	Range	150W		300W	
	Resolution	10mW		10mW	

	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Overpower protection		Delay protection when ≥152W, Immediately protection when ≥165 W		Delay protection when ≥303W, Immediately protection when ≥330 W	
Overcurrent protection		Delay protection when ≥30.3A, Immediately protection when ≥33 A		Delay protection when ≥30.3A, Immediately protection when ≥33 A	
Overvoltage protection		Delay protection when ≥152V, Immediately protection when ≥165 V		Delay protection when ≥152V, Immediately protection when ≥165 V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≤3A	≤30A	≤3A	≤30A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	50mΩ	50mΩ
Ripple display		√		√	
Waveform record		/		/	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	
Resistance of input terminal		300KΩ		300KΩ	
Fuse specification		0.5A(110V)/0.25A(220V)		0.5A(110V)/0.25A(220V)	
Communication interface		RS232		RS232	
Protocol		SCPI		SCPI	
Data acquisition software		√		√	
Standard accessory		Power cord		Power cord	
Power requirement		110V/220V Frequency 50/60Hz		110V/220V Frequency 50/60Hz	
Size mm (WxHxD)		215*88*372		215*88*372	
Net Weight (kg)		3.73		4.49	

Series		UTL8500X+ Series			
Model		UTL8511A+		UTL8511B+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~15V	0~150V	0~50V	0~500V
	Input current	0~3A	0~30A	0~1.5A	0~15A
	Input power	200W		200W	
	Minimum of operating voltage	1.4±0.1V at 30A		2.8V±0.2V at 15A	
CV (Constant Voltage) mode	Range	0.1~150V		0.1~500V	
	Resolution	1mV		1mV	
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	

CC (Constant Current) mode	Range	0~3A	0~30A	0~1.5A	0~15A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω~10kΩ		0.05Ω~10kΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP (Constant Power) mode	Range	200W		200W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Dynamic mode	T1&T2	10μs~50s/Res:1μs		10μs~50s/Res:1μs	
	Accuracy	1μs/1ms±100ppm		1μs/1ms±100ppm	
	Rising/falling slope	0.0006A/μs~3A/μs		0.0006A/μs~3A/μs	
	Minimum of rising time	10μs		10μs	
Readback voltage	Range	0~15V	0~150V	0~50V	0~500V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV
	Accuracy	± (0.02%+0.3%FS)		± (0.02%+0.03%FS)	
Readback voltage	Range	0~150V		0~500V	
	Resolution	0.1mV		0.1mV	
	Accuracy	± (0.02%+0.3%FS)		± (0.02%+0.03%FS)	
Readback current	Range	0~3A	0~30A	0~1.5A	0~15A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
Readback power	Range	200W		200W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Overpower protection		Delay protection when ≥202W, Immediately protection when ≥220W		Delay protection when ≥ 202W, Immediately protection when ≥220W	
Overcurrent protection		Delay protection when ≥ 30.3A, Immediately protection when ≥33A		Delay protection when ≥15.2A, Immediately protection when ≥16.5A	
Overvoltage protection		Delay protection when ≥ 152V, Immediately protection when ≥165V		Delay protection when ≥ 505V, Immediately protection when ≥550V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≤3A	≤30A	≤1.5A	≤15A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	200mΩ	200mΩ
Ripple display		√		√	
Waveform record		√		√	

Test mode	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list
Resistance of input terminal	300KΩ	1MΩ
Fuse specification	0.5A(110V)/0.25A(220V)	0.5A(110V)/0.25A(220V)
Communication interface	RS232	RS232
Protocol	SCPI	SCPI
Data acquisition software	√	√
Standard accessory	Power cord	Power cord
Power requirement	110V/220V Frequency 50/60Hz	110V/220V Frequency 50/60Hz
Size mm (WxHxD)	215*88*372	215*88*373
Net Weight (kg)	3.73	3.73

Series		UTL8500X+ Series			
Model		UTL8512A+		UTL8512B+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~15V	0~150V	0~50V	0~500V
	Input current	0~3A	0~30A	0~3A	0~30A
	Input power	400W		400W	
	Minimum of operating voltage	1.4V±0.1V at 30A		2.8V±0.2V at 30A	
CV (Constant Voltage) mode	Range	0.1~150V		0.1~500V	
	Resolution	1mV		1mV	
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CC (Constant Current) mode	Range	0~3A	0~30A	0~3A	0~30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω~10kΩ		0.05Ω~10kΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP (Constant Power) mode	Range	400W		400W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Dynamic mode	T1&T2	10μs~50s/Res:1μs		10μs~50s/Res:1μs	
	Accuracy	1μs/1ms±100ppm		1μs/1ms±100ppm	
	Rising/falling slope	0.0006A/μs~3A/μs		0.0006A/μs~3A/μs	

	Minimum of rising time	10μs		10μs	
Readback voltage	Range	0~15V	0~150V	0~50V	0~500V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV
	Accuracy	± (0.02%+0.3%FS)		± (0.02%+0.03%FS)	
Readback voltage	Range	0~150V		0~500V	
	Resolution	0.1mV		0.1mV	
	Accuracy	± (0.02%+0.3%FS)		± (0.02%+0.03%FS)	
Readback current	Range	0~3A	0~30A	0~3.0A	0~30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
Readback power	Range	400W		400W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Overpower protection		Delay protection when ≥404W, Immediately protection when ≥440 W		Delay protection when ≥404W, Immediately protection when ≥440 W	
Overcurrent protection		Delay protection when ≥30.3A, Immediately protection when ≥33A		Delay protection when ≥30.3A, Immediately protection when ≥33A	
Overvoltage protection		Delay protection when ≥152V, Immediately protection when ≥165V		Delay protection when ≥505V, Immediately protection when ≥550V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≤3A	≤30A	≤3A	≤30A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	50mΩ	50mΩ	120mΩ	120mΩ
Ripple display		√		√	
Waveform record		√		√	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	
Resistance of input terminal		300KΩ		1MΩ	
Fuse specification		0.5A(110V)/0.25A(220V)		0.5A(110V)/0.25A(220V)	
Communication interface		RS232		RS232	
Protocol		SCPI		SCPI	
Data acquisition software		√		√	
Standard accessory		Power cord		Power cord	
Power requirement		110V/220V Frequency 50/60Hz		110V/220V Frequency 50/60Hz	
Size mm (WxHxD)		215*88*374		215*88*375	
Net Weight (kg)		4.49		4.49	

Series		UTL8500X+ Series			
Model		UTL8513A+		UTL8513B+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~15V	0~150V	0~50V	0~500V
	Input current	0~12A	0~120A	0~6A	0~60A
	Input power	600W		600W	
	Minimum of operating voltage	1.4V±0.1V at 120A		2.8V±0.2V at 60A	
CV (Constant Voltage) mode	Range	0.1~150V		0.1~500V	
	Resolution	10mV		10mV	
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CC (Constant Current) mode	Range	0~12A	0~120A	0~6A	0~60A
	Resolution	0.1mA	1mA	0.1mA	1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω~10kΩ		0.05Ω~10kΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP (Constant Power) mode	Range	600W		600W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Dynamic mode	T1&T2	10μs~50s/Res:1μs		10μs~50s/Res:1μs	
	Accuracy	1μs/1ms±100ppm		1μs/1ms±100ppm	
	Rising/falling slope	0.0006A/μs~12A/μs		0.0006A/μs~6A/μs	
	Minimum of rising time	10μs		10μs	
Readback voltage	Range	0~15V	0~150V	0~50V	0~500V
	Resolution	0.1mV	1mV	0.1mV	1mV
	Accuracy	± (0.02%+0.03%FS)		± (0.02%+0.03%FS)	
Readback voltage	Range	0~150V		0~500V	
	Resolution	1mV		1mV	
	Accuracy	± (0.02%+0.03%FS)		± (0.02%+0.03%FS)	
Readback current	Range	0~12A	0~120A	0~6A	0~60A
	Resolution	0.1mA	1mA	0.1mA	1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
Readback power	Range	600W		600W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	

Overpower protection		Delay protection when ≥ 606W, Immediately protection when ≥ 660W		Delay protection when ≥606W, Immediately protection when ≥ 660W	
Overcurrent protection		Delay protection when ≥ 121.2A, Immediately protection when ≥ 132A		Delay protection when ≥60.6A, Immediately protection when ≥66 A	
Overvoltage protection		Delay protection when ≥ 152 V, Immediately protection when ≥ 165 V		Delay protection when ≥505V, Immediately protection when ≥550V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≤12A	≤120A	≤6A	≤60A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	35mΩ	35mΩ	105mΩ	105mΩ
Ripple display		√		√	
Waveform record		√		√	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	
Resistance of input terminal		300KΩ		1MΩ	
Fuse specification		0.5A(110V)/0.25A(220V)		0.5A(110V)/0.25A(220V)	
Communication interface		RS232		RS232	
Protocol		SCPI		SCPI	
Data acquisition software		√		√	
Standard accessory		Power cord		Power cord	
Power requirement		110V/220V Frequency 50/60Hz		110V/220V Frequency 50/60Hz	
Size mm (WxHxD)		215*88*475		215*88*475	
Net Weight (kg)		6.72		6.72	

Model		UTL8514B+		UTL8514C+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~500V		0~150V	
	Input current	0~12A	0~120A	0~24A	0~240A
	Input power	1500W		1500W	
	Minimum of operating voltage	2.8V at 120A		1.4V at 240A	
CV (Constant Voltage) mode	Range	0~500V		0~150V	
	Resolution	0.5mV	5mV	0.2mV	2mV
	Accuracy	±(0.03%+0.03% FS)		±(0.03%+0.03% FS)	
	Range	0~12A	0~120A	0~24A	0~240A
	Resolution	0.2mA	2mA	0.5mA	5mA

CC (Constant Current) mode	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω～50KΩ		0.05Ω～50KΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.04R)%		(0.1+0.08R)%	
CP (Constant Power) mode	Range	1500W		1500W	
	Resolution	16bit		16bit	
	Accuracy	0.1% + 0.1% FS		0.1% + 0.1% FS	
Dynamic mode	T1&T2	10μS~50S		10μS~50S	
	Accuracy	1μS±20ppm		1μS±20ppm	
	Rising/falling slope	1.2A/mS~2.4A/μS		2.4A/mS~4.8A/μS	
	Minimum of rising time	2μs		2μs	
CC/CP Readback voltage	Range	0~50V	0~500V	0~15V	0~150V
	Resolution	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.02%+0.03% FS)		±(0.02%+0.03% FS)	
CV/CR Readback voltage	Range	0~500V		0~150V	
	Resolution	1mV		1mV	
	Accuracy	±(0.02%+0.03% FS)		±(0.02%+0.03% FS)	
Readback current	Range	0~12A	0~120A	0~24A	0~240A
	Resolution	0.2mA	2mA	0.01mA	1mA
	Accuracy	± (0.03%+0.05%FS)		± (0.03%+0.05%FS)	
Readback power	Range	1500W		1500W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Overpower protection		≥1650W		≥1650W	
Overcurrent protection		≥13.2A	≥132A	≥26.4A	≥264A
Overvoltage protection		≥550V		≥165V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≥13.2A	≥132A	≥26.4A	≥264A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	<50mΩ		<50mΩ	
Ripple display		√		√	
Waveform record		√		√	

Test mode	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list
Resistance of input terminal	150KΩ	150KΩ
Fuse specification	2.5A(110V)/1.25A(220V)	2.5A(110V)/1.25A(220V)
Communication interface	RS232	RS232
Protocol	SCPI	SCPI
Data acquisition software	√	√
Standard accessory	Power cord	Power cord
Power requirement	110V/220V Frequency 50/60Hz	110V/220V Frequency 50/60Hz
Size mm (WxHxD)	426*89*487.9	426*89*487.9
Net Weight (kg)	17.9	17.9

Model		UTL8516B+		UTL8516C+	
Display Screen		LCD		LCD	
Rated value 0~40°C	Input voltage	0~500V		0~150V	
	Input current	0~24A	0~240A	0~24A	0~240A
	Input power	3000W		3000W	
	Minimum of operating voltage	2.8V @240A		1.4V at 240A	
CV (Constant Voltage) mode	Range	0~50V	0~500V	0~15V	0~150V
	Resolution	0.5mV	5mV	0.2mV	2mV
	Accuracy	±(0.03%+0.03% FS)		±(0.03%+0.03% FS)	
CC (Constant Current) mode	Range	0~24A	0~240A	0~24A	0~240A
	Resolution	1mA	10mA	1mA	10mA
	Accuracy	± (0.05%+0.05%FS)		± (0.05%+0.05%FS)	
CR (Constant Resistance) mode	Range	0.05Ω~25kΩ		0.05Ω~25kΩ	
	Resolution	16bit		16Bits	
	Accuracy	(0.1+0.08R)%		(0.1+0.08R)%	
CP (Constant Power) mode	Range	3000W		3000W	
	Resolution	16bit		16bit	
	Accuracy	0.1% + 0.1% FS		0.1% + 0.1% FS	
Dynamic mode	T1&T2	10μS~50S		10μS~50S	
	Accuracy	1μS±20ppm		1μS±20ppm	

	Rising/falling slope	4.8A/mS~24A/μS		4.8A/mS~24A/Ms	
	Minimum of rising time	2μs		2μs	
CC/CP Readback voltage	Range	0~50V	0~500V	0~15V	0~150V
	Resolution	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.03%+0.03% FS)		±(0.03%+0.03% FS)	
CV/CR Readback voltage	Range	0~500V		0~150V	
	Resolution	1mV		1mV	
	Accuracy	±(0.03%+0.03% FS)		±(0.03%+0.03% FS)	
Readback current	Range	0 – 24 A	0~240A	0~24A	0~240A
	Resolution	1mA	10mA	1mA	10mA
	Accuracy	±(0.05%+0.05% FS)		± (0.05%+0.05%FS)	
Readback power	Range	3000W		3000W	
	Resolution	10mW		10mW	
	Accuracy	± (0.1%+0.1%FS)		± (0.1%+0.1%FS)	
Overpower protection		≥3300W		≥3300W	
Overcurrent protection		≥26.4A	≥264A	≥26.4A	≥264A
Overvoltage protection		≥550V		≥165V	
Over-temperature protection		≥85℃		≥85℃	
Short Circuit	Current (CC)	≥26.4A	≥264A	≥26.4A	≥264A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	<50mΩ		<50mΩ	
Ripple display		√		√	
Waveform record		√		√	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	
Resistance of input terminal		1MΩ		300KΩ	
Fuse specification		2A(110V)/1A(220V)		2A(110V)/1A(220V)	
Communication interface		RS232		RS232	
Protocol		SCPI		SCPI	
Data acquisition software		√		√	
Standard accessory		Power cord		Power cord	

Power requirement	110V/220V Frequency 50/60Hz	110V/220V Frequency 50/60Hz
Size mm (WxHxD)	426*178.2*487.9	426*178.2*487.9
Net Weight (kg)	30.6	30.6

Accuracy temperature range: 25 ± 5 ℃

Calibration period: 1 time/year

5.Package Contents

Item	Quantity	Remarks
DC electronic load	1 pcs	The model is subject to the actual order
Power cord	1 pcs	
RS232 communication wire	1 pcs	
Spare fuse	2 pcs	
User's manual	/	Electronic file can download from the official website
Certificate Of Calibration	1 pcs	
Multi-language Safety Precautions	1 pcs	

6. Optional Accessory

Model	Description	Picture
UT-L0615-OO	Double O type terminal 60A/1.5m power supply/electronic load test wire	
UT-L0320-UU	Double U-type terminal 30A/2m power supply/electronic load test wire	
UT-L0312-UU	Double U-type terminal 30A/1.2m power supply/electronic load test wire	
UT-L0110-BB	Double Fold insert 10A/1m power supply/electronic load test wire	
UT-L0110-BU	Fold insert-U type terminal 10A/1m power supply/electronic load test wire	

7. Limited Warranty and Liability

Uni-T guarantees that the Instrument product is free from any defect in material and workmanship within three years from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination or improper handling. If you need warranty service within the warranty period, please contact your seller directly. Uni-T will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by using this device. For the probes and accessories, the warranty period is one year. Visit instrument.uni-trend.com for full warranty information.

Learn more at: www.uni-trend.com

Register your product to confirm your ownership. You will also get product notifications, update alerts, exclusive offers and all the latest information you need to know.

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