

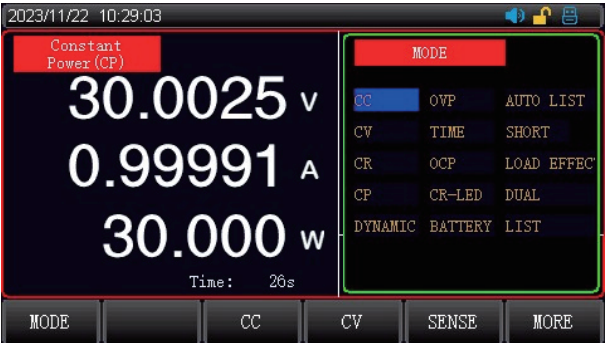
UTL8500X+ Series NEW

Programmable DC Electronic Loads



UTL8500X+ series DC electronic load is a new generation of intelligent large-screen and cost-effective electronic load. Up to 500KHz synchronous sampling, high-performance DSP processing. The fast, efficient and intuitive LIST programmable automatic test mode meets most R&D and testing needs.

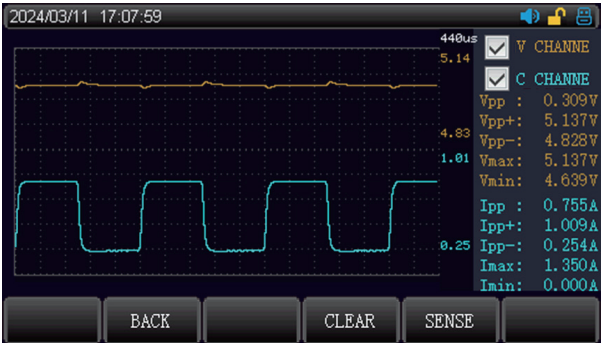
Power Supplies and Sources



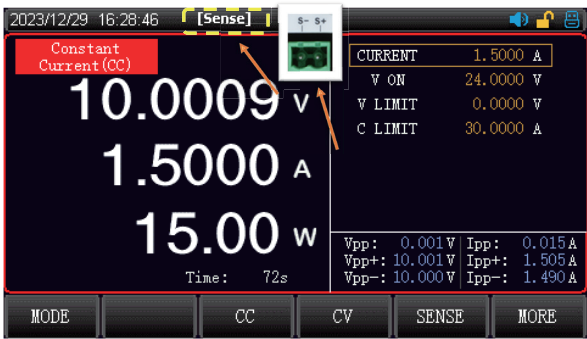
- 15 test modes are available to arrange your tests freely

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LIST NAME	No.	MODE	VALUE	TIMING	EXAMI	LOWER LIMIT	UPPER LIMIT
MODE	1	CC	0.100	500	Curr	0.095	0.105
	2	CC	0.500	500	Curr	0.495	0.505
CONTINUOUS	3	CP	60.000	1000	POWER	59.000	60.000
STEP	4	CR	100.000	1000	Curr	0.110	0.130
10	5	CC	1.000	1000	Volt	11.000	12.000
REPEAT	6	SHORT	6.000	1000	Curr	5.900	6.100
1	7	OPEN	0.000	500	Volt	11.000	12.000
V ON	8	CV	8.000	500	Volt	7.900	8.100
0.00V							
MAIN PARAM LIST PARAM INSERT UP INSERT DOWN DELETE MORE>>							

- Freely edit test items in List mode to help you implement automated measurement



- Ripple measurement & waveform display for better power testing



- Remote compensation solves the problem of inaccurate display in long-distance tests

Key Specifications		UTL8511A+		UTL8511B+		UTL8512A+		UTL8512B+		UTL8513A+		UTL8513B+	
Input ratings 0-40C°	Input voltage	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Input current	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Input power	200W		200W		400W		400W		600W		600W	
	Min. operating voltage	1.4±0.1V at 30A		2.8V±0.2V at 15A		1.4±0.1V at 30A		2.8V±0.2V at 30A		1.4V±0.1V at 120A		2.8V±0.2V at 60A	
CV mode	Range	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V
	Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	1mV	10mV	1mV	10mV
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
CC mode	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)	
CR mode	Range	0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ	
	Resolution	16bit		16bit		16bit		16bit		16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%	
CP mode	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Dynamic mode (CCmode)	T1&T2	10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS	
	Accuracy	1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm	
	Rise/fall slope	0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-12A/μs		0.0006A/μs-6A/μs	
	Min rise time	10us		10us		10us		10us		10us		10us	
Readback voltage	Range	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)	
Readback current	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
Readback power	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	

Key Specifications		UTL8511A+		UTL8511B+		UTL8512A+		UTL8512B+		UTL8513A+		UTL8513B+	
Over-power protection		≥202W delayed protection, ≥220W immediate protection		≥202W delayed protection, ≥220W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥606W delayed protection, ≥660W immediate protection		≥606W delayed protection, ≥660W immediate protection	
Over-current protection		≥30.3A delay protection, ≥33A immediate protection		≥15.2A delay protection, ≥16.5A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥121.2A delay protection, ≥132A immediate protection		≥60.6A delay protection, ≥66A immediate protection	
Over-voltage protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection	
Over-temperature protection		≥85℃		≥85℃		≥85℃		≥85℃		≥85℃		≥85℃	
Short circuit	Current (CC)	≤3A	≤30A	≤1.5A	≤15A	≤3A	≤30A	≤3A	≤30A	≤12A	≤120A	≤6A	≤60A
	Voltage (CV)	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	200mΩ	200mΩ	50mΩ	50mΩ	120mΩ	120mΩ	35mΩ	35mΩ	105mΩ	105mΩ
Ripple display		yes		yes		yes		yes		yes		yes	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	
Input terminal resistance		300KΩ		1MΩ		300KΩ		1MΩ		300kΩ		1MΩ	
Interface&protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol	

General Characteristics			
Power	110V/220V, 50/60Hz		110V/220V, 50/60Hz
Display	4.3 inch LCD		4.3 inch LCD
Product size (W×H×D)	215mm x 88mm x 372mm		215mm x 88mm x475mm
Product net weight	3.73kg	4.49kg	6.72kg
Standard quantity per carton	1pcs		
Standard carton size	515mmX365mmX220mm		650mmX365mmX220mm

Ordering Information	
UTL8500X+ Series	UTL8511A+:Programmable DC Electronic Load (150V, 30A, 200W)
	UTL8511B+:Programmable DC Electronic Load (500V, 15A, 200W)
	UTL8512A+:Programmable DC Electronic Load (150V, 30A, 400W)
	UTL8512B+:Programmable DC Electronic Load (500V, 30A, 400W)
	UTL8513A+:Programmable DC Electronic Load (150V, 120A, 600W)
	UTL8513B+:Programmable DC Electronic Load (500V, 60A, 600W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 data cable
	2P connecting terminal
	5P connecting terminal
	Fuse



UTL8500X+ Series