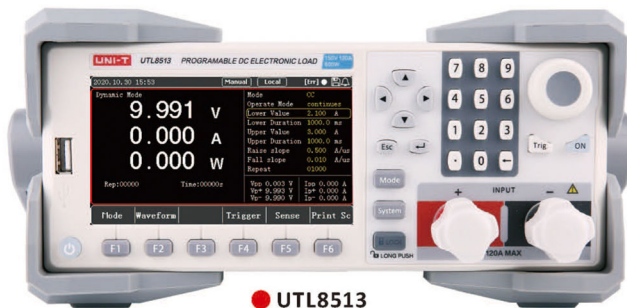


# UTL8500 Series

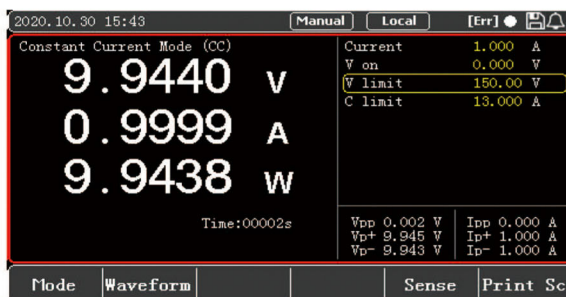
## Programmable DC Electronic Loads



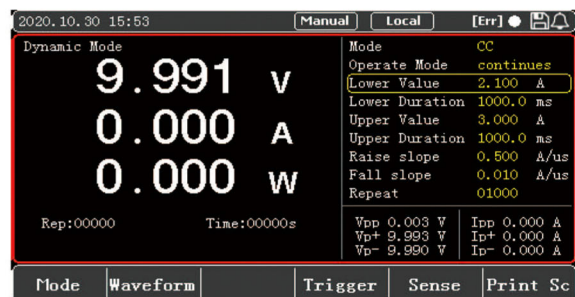
● UTL8513

The UTL8500 Series is a cost-effective programmable DC electronic load series with high performance. With a resolution of 0.1mV and 0.1mA, multiple protection mechanisms significantly improve the reliability of the equipment. The Series has a variety of testing functions and modes, equipped with RS-232 communication interface, and can be equipped with other communication interfaces according to design and testing requirements. The Series provides a flexible, fast and effective solution. Meet different customers' needs from Education, Scientific Research and Manufacturing.

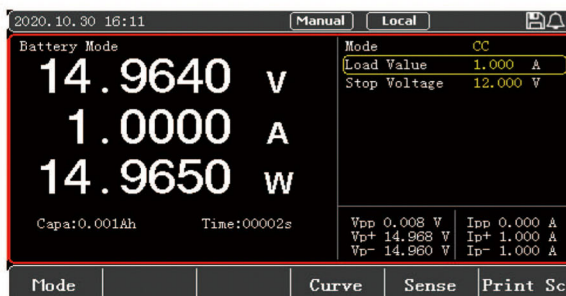
- High resolution: 0.1mV/0.1mA
- 4 basic modes: CC/CV/CR/CP
- Measuring range: voltage of 0~150V/500V, current of 0~15A/30A-40A/120A, power of 150W-600W
- Dynamic test, overload test, auto test, list test, battery test, CR-LED test
- Protections of over-voltage/under-voltage/over-current/over-power/overheat/anti-reverse connection
- List function and over-voltage protection
- Screenshot function with list storage & recall
- Equipped with standard RS-232 interface and support more extension interfaces



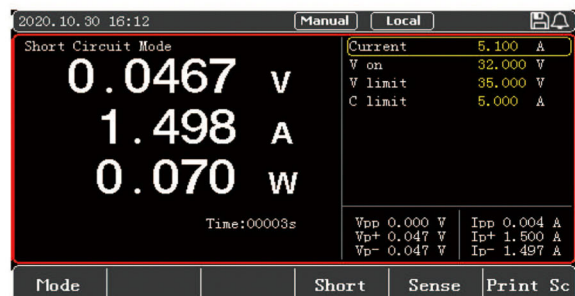
- 4 basic modes: CC/CV/CR/CP and high resolution of 0.1mV/0.1mA



- Dynamic mode test



- Battery test function



- Short circuit test

Technical Specifications		UTL8511	UTL8512	UTL8512B+	UTL8513
Input ratings (0~40°C)	Input voltage	0~150V	0~150V	0~500V	0~150V
	Input current	0~3A,0~30A	0~3A,0~30A	0~1.5A	0~15A
	Input current	0~3A,0~30A		0~1.5A	0~12A
	Input power	150W	300W	300W	600W
	Min. operating voltage	1.4V at 30A	1.4V at 30A	3V at 15A	2.8V at 120A
CV mode	Range	0~18V,0~150V		0~50V	0~500V
	Accuracy	±(0.05%+0.025%FS)			
CC mode	Range	0~3A,0~30A		0~1.5A	0~15A
	Accuracy	±(0.05%+0.05%FS)			
CR mode	Range	0.05Ω~7.5KΩ		0.1Ω~25KΩ	0.05Ω~7.5KΩ
	Accuracy	0.1%+0.08S			
CP mode	Range	150W	300W	300W	600W
	Accuracy	±(0.1%+0.1%FS)			
Dynamic mode (CC mode)	T1&T2	50μs~99.999S/Res: 1μs			
	Accuracy	5μs±100ppm			
	Rise/fall slope	0.001~3.0A/μs		0.001~1.5A/μs	
	Min rise time	≥10μs			
Readback voltage	Range	0~18V, 0~150V		0~50V	0~500V
	Accuracy	±(0.025%+0.025%FS)			
Readback current	Range	0~3A,0~30A		0~3A	0~15A
	Accuracy	0.025%+0.05%FS		0~12A	0~120A
Readback power	Range	150W	300W	300W	600W
	Accuracy	±(0.1%+0.1%FS)			
Over-power protection	Delay protection when it is ≥ set value x 1.05				
	Instant protection when it is ≥ set value x 1.1				
	Instant protection when it is >(FS+15W)				
Over-current protection	Delay protection when it is ≥ set value x 1.05				
	Instant protection when it is ≥ set value x 1.1				
	Instant protection when it is >(FS+1.5A)				
Over-voltage protection	Delay protection when it is ≥ set value x 1.05				
	Instant protection when it is ≥ set value x 1.1				
	Instant protection when it is >(FS+3V)				
Over-temperature protection	≥85°C				
Short circuit	Current (CC)	≤3A, ≤30A		≤1.5A	≤15A
	Voltage (CV)	0V			
	Resistance	35mΩ			
Input terminal resistance	300KΩ		1MΩ	300KΩ	
Power	110V/220V, 50/60Hz				
Display	4.3 inches LCD				
Product net weight	UTL8511/UTL8512/UTL8512B+: 5.3kg; UTL8513: 7.6kg				
Product size (W×H×D)	UTL8511/UTL8512/UTL8512B+: 214mm x 88mm x 340mm; UTL8513: 214mm x 88mm x 520mm				
Standard quantity per carton	2pcs				
Standard carton size	UTL8511/UTL8512/UTL8512B+: 410mm x 310mm x 490mm; UTL8513: 410mm x 310mm x 570mm				
Standard carton gross weight	UTL8511/UTL8512/UTL8512B+: 11.6kg; UTL8513: 16.2kg				

Ordering Information	
UTL8500 Series	UTL8513: Programmable DC Electronic Load (150V, 120A,600W)
	UTL8512B+: Programmable DC Electronic Load (500V, 15A,300W)
	UTL8512: Programmable DC Electronic Load (150V, 30A,300W)
	UTL8511: Programmable DC Electronic Load (150V, 30A,150W)
Standard Accessories	Power cord conforming to the standard of the destination country
	240V, 0.25A fuse (only for 110V input voltage)
	Factory qualified report (Suitable for UTL8512B+ and UTL8513)