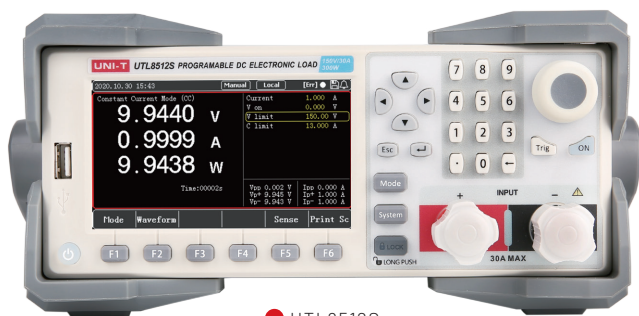


Selection Guide

Series	Model	Total Power	Voltage	Current	Highest Frequency	Current Slope	Resolution
UTL8500	UTL8512S	300W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8511S	150W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8513	600W	150V	120A	10kHz	1.5A/μs	0.1mV 0.1mA
	UTL8512	300W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8511	150W	150V	30A	10kHz	3A/μs	0.1mV 0.1mA
	UTL8512B+	300W	500V	15A	10kHz	1.5A/μs	0.1mV 0.1mA
UTL8200	UTL8212	200W×2CH	150V	40A	10kHz	0.15A/μs	1mV 1mA
	UTL8211	400W	150V	20A	10kHz	0.15A/μs	1mV 1mA

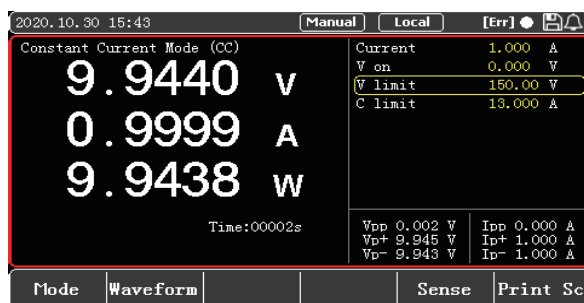
UTL8500 Series Programmable DC Electronic Loads



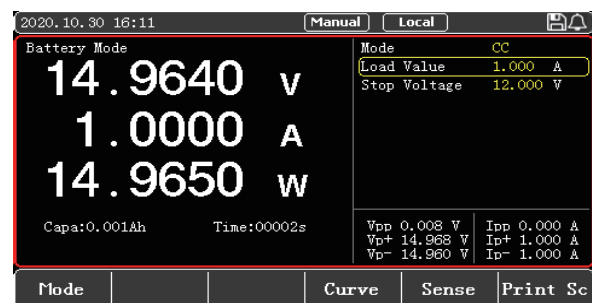
● UTL8512S

The UTL8500 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.

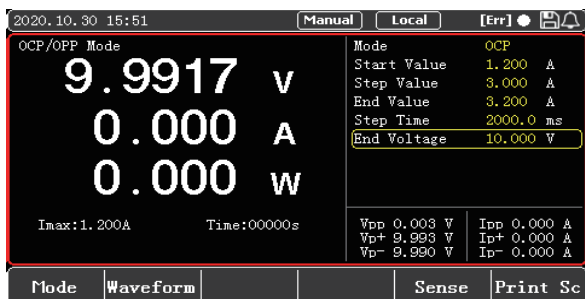
UTL8500 series provides a flexible, fast and effective solution. Meet different customer's needs from Education, Scientific Research and Manufacturing.



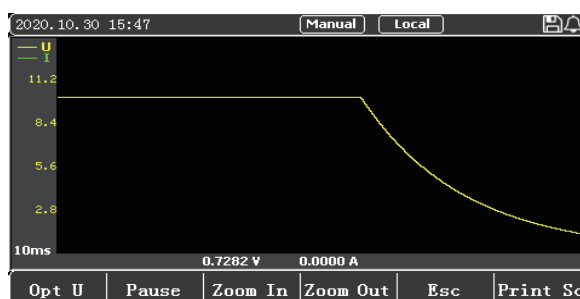
- 4 basic modes: CC/CV/CR/CP and high resolution of 0.1mV/0.1mA



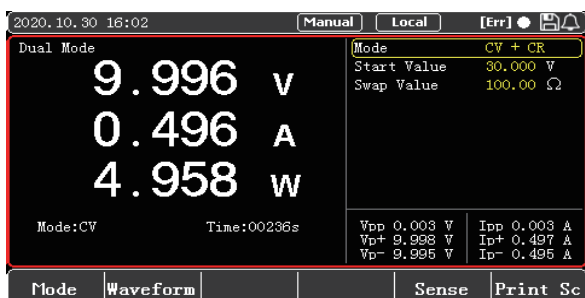
- Battery test function



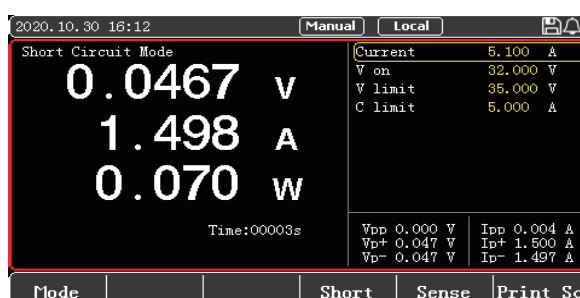
● Multiple protection test and ripple measurement functions



● Real-time waveform display function



● Three combination modes



● Short circuit test

Key Specifications		UTL8511S	UTL8512S	UTL8511	UTL8512	UTL8512B+	UTL8513
Input ratings (0~40°C)	Input voltage	0~150V		0~150V	0~150V	0~500V	0~150V
	Input current	0~3A,0~30A		0~3A,0~30A		0~1.5A	0~15A
	Resolution	0.1mV, 0.1mA					
	Input power	150W	300W	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		0.05Ω~7.5KΩ		0.1Ω~25KΩ	0.05Ω~7.5KΩ
	Accuracy	0.1%+0.08%FS					
CP mode	Range	150W	300W	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/us				0.001~1.5A/us	
	Min rise time	≥10us					
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)				0.05%+0.05%FS	0.025%+0.05%FS
Readback power	Range	150W	300W	150W	300W	300W	600W
	Accuracy	±(0.1%+0.1%FS)					
Ripple wave measurement	Range	0~0.3V,0~9V		-			
	Accuracy	0.1%+2mV, 0.1%+10mV		-			

Key Specifications		UTL8511S	UTL8512S	UTL8511	UTL8512	UTL8512B+	UTL8513	
Over-power protection		Delay protection when it is \geq set value $\times 1.05$						
		Instant protection when it is \geq set value $\times 1.1$						
		Instant protection when it is $>(\text{FS}+15\text{W})$						
Over-current protection		Delay protection when it is \geq set value $\times 1.05$						
		Delay protection when it is \geq set value $\times 1.05$						
		Instant protection when it is $>(\text{FS}+1.5\text{A})$						
Over-voltage protection		Delay protection when it is \geq set value $\times 1.05$						
		Instant protection when it is \geq set value $\times 1.1$						
		Instant protection when it is $>(\text{FS}+3\text{V})$						
Over-temperature protection		$\geq 85^{\circ}\text{C}$						
Short circuit	Current(CC)	$\leq 3\text{A}, \leq 30\text{A}$				$\leq 1.5\text{A}$	$\leq 15\text{A}$	$\leq 12\text{A}$
	Voltage(CV)	0V						
	Resistance(CR)	35m Ω						
Input terminal resistance		300K Ω			1M Ω		300K Ω	
Interface&protocol		RS232 interface and SCPI protocol						
Power		110V/220V, 50/60Hz						
Display		4.3 inch LCD						
Product size(W×H×D)		214mm × 88mm × 340mm					214mm x 88mm x 520mm	
Product net weight		5.3kg					7.6kg	
Standard quantity per carton		2pcs					2pcs	
Standard carton size		410mm × 310mm × 490mm					410mm x 310mm x 570mm	
Standard carton gross weight		13.5kg			11.6kg		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)
	UTL8512S: Programmable DC Electronic Load (150V, 30A, 300W)
	UTL8511S: Programmable DC Electronic Load (150V, 30A, 150W)
Standard Accessories	Power cord conforming to the standard of the destination country
	250V, 0.5A fuse (Suitable for 110V)