

## UT512D/UT512E

## 2.5kV Insulation Resistance Testers

UT512D/UT512E is digital high-voltage insulation resistance tester, designed with multiple ranges including 250V, 500V, 1000V, 2500V. It is an ideal measurement meter for electric power, telecommunication, meteorology, machine room, oil field, electromechanical installation and maintenance, and power supply department of Industry and mining enterprise.

## **Main features:**

- Output voltage range: Up to 2.5KV
- PI/DAR measurement
- Short circuit current measurement
- Automatic leakage current display
- •Stepping voltage: 10% of the range
- High voltage alarm
- Automatic discharge
- •Data storage: 999 set
- PC software analysis: via USB cable
- Overvoltage category: CAT IV 600V





UT512D



UT512E



Comparison function



Anti-Misplug (UT512E only)



Auto discharge



PC software analysis



Lithium battery (UT512E only)

## | Technical Specifications

Rated voltage	UT512D	UT512E	Accuracy
	<0.25ΜΩ	<0.25MΩ	reference only
250V	0.25ΜΩ~4.99GΩ	0.25MΩ~4.99GΩ	±(5%+5)
	5.00GΩ~24.9GΩ	5.00GΩ~49.9GΩ	±(20%+10)
	25.0GΩ~100GΩ	50.0GΩ~250GΩ	reference only
	<0.50ΜΩ	<0.50ΜΩ	reference only
500V	0.50ΜΩ~9.99GΩ	0.50ΜΩ~9.99GΩ	±(5%+5)
	10.0GΩ~49.9GΩ	10.0GΩ~99.9GΩ	±(20%+10)
	50.0GΩ~200GΩ	100GΩ~500GΩ	reference only
	<1.00ΜΩ	<1.00ΜΩ	reference only
	1.00MΩ~19.9GΩ	1.00ΜΩ~19.9GΩ	±(5%+5)
1000V	20.0GΩ~99.9GΩ	20.0GΩ~199GΩ	±(20%+10)
	100GΩ~400GΩ	200GΩ~1.00TΩ	reference only
	<2.50ΜΩ	<2.50ΜΩ	reference only
	2.50MΩ~49.9GΩ	2.50MΩ~49.9GΩ	±(5%+5)
2500V	50.0GΩ~249GΩ	50.0GΩ~499GΩ	±(20%+10)
	250GΩ~1.00TΩ	500GΩ~2.50TΩ	reference only
Capacitance test	NA	0.01uF~2.0uF	±(15%+3)
Low resistor test	NA NA	0.1Ω~600Ω	±(13%+3)  ±(2%+10)
Output voltage (Rating)	stepping voltage range		
250V			Step by 10% of each range each time,
500V	350V, 275V, 300V and adjust the voltage range to		
		300V, 350V, 400V, 450V, 500V, 550V, 600V 50%~120% of each range; 500V, 600V, 700V, 800V, 900V, 1000V, 1100V, 1200V Display accuracy: ±(10% read+10V)	
1000V			Output accuracy: ±(10% read+10v)
2500V			
DC voltage	30~1000VDC		±(3%+5)
AC voltage	30~750VAC 50Hz/60Hz		±(3%+5)
Current	0.01nA~3.5mA	0.01nA~5mA	
Short-circuit current	about 3.5mA	about 5mA	
Features			
	l autamatic diaminu		
PI test	automatic display		
DAR test	automatic display		
DAR test Timing measurement	automatic display √		
DAR test	automatic display √ √		
DAR test Timing measurement	automatic display  V  V  Monitor the voltage of higher than 36V, it is fo	orbidden to test for protecting	harge state after testing. If voltage is the tester and the operator
DAR test Timing measurement Resistance comparison	automatic display  v  v  Monitor the voltage of	rbidden to test for protecting tomatically.	
DAR test Timing measurement Resistance comparison Monitoring function	automatic display  V  Monitor the voltage of higher than 36V, it is fo Record testing time au Timing range: 0s~99m 999 sets	orbidden to test for protecting tomatically. and 59s	
DAR test Timing measurement Resistance comparison Monitoring function Timer testing	automatic display  V  Monitor the voltage of higher than 36V, it is fo Record testing time au Timing range: 0s~99m 999 sets	orbidden to test for protecting tomatically. and 59s	
DAR test Timing measurement Resistance comparison Monitoring function Timer testing Storage function	automatic display  V  Monitor the voltage of higher than 36V, it is fo Record testing time au Timing range: 0s~99m 999 sets	rbidden to test for protecting tomatically.	
DAR test Timing measurement Resistance comparison Monitoring function  Timer testing Storage function Data transmission	automatic display  V  V  Monitor the voltage of higher than 36V, it is fo Record testing time au Timing range: 0s~99m  999 sets  Upload testing data to	orbidden to test for protecting tomatically. and 59s	
DAR test Timing measurement Resistance comparison Monitoring function  Timer testing Storage function Data transmission Low battery indication	automatic display  V  V  Monitor the voltage of higher than 36V, it is fo Record testing time au Timing range: 0s~99m  999 sets  Upload testing data to V	orbidden to test for protecting tomatically. and 59s	
DAR test Timing measurement Resistance comparison Monitoring function  Timer testing Storage function Data transmission Low battery indication Auto power off	automatic display  V  Monitor the voltage of higher than 36V, it is for Record testing time au Timing range: 0s~99m 999 sets  Upload testing data to V  N/A	orbidden to test for protecting tomatically. and 59s	
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DAR test Timing measurement Resistance comparison Monitoring function  Timer testing Storage function Data transmission Low battery indication Auto power off Dimensions CAT rating General Characteristics Power supply Product color Product weight  Accessories	automatic display  V  V  Monitor the voltage of higher than 36V, it is for Record testing time au Timing range: 0s~99m  999 sets  Upload testing data to V  N/A  238 x 166 x 90.5mm  CAT IV 600V  8 x LR14 Alkaline batte  14.8V,5200mAh lithiun  Black+Red  About 1800g (including User manual 1 pc; Test battery charger (Output (14.8V, 5200mAh) 1 pc	ry n battery g battery) lead (red, black, green: 1 for eut. 16.8Vdc, 2A) 1 pc (UT512E of	UT512D UT512E  ach) 3 pcs; USB cable 1 pc; Lithium only); Lithium battery pack ging stand (optional, model: UT-W12, for
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