

Models	UT511	UT512	UT513A	UT516B
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Test voltage	1000V	2500V	5000V	12000V
Insulation resistance	10GΩ	100GΩ	1TΩ	10TΩ
Step voltage				50%-120% in range and 10% steps
Short-circuit current	<2mA	<1.8mA	3.5mA	5mA
Comparison function	●	●	●	●
Polarization index (PI)	●	●	●	●
Dielectric absorption ration (DAR)	●	●	●	●
Secondary display for current				●
Auto discharge	●	●	●	●
Low resistance (Continuity)	999.9Ω			
Auto range	●	●	●	●
DC voltage	1000V	600V	600V	1000V
AC voltage	750V	600V	600V	750V
USB data transmission		●	●	●
Data storage	18	18	18	999
High voltage prompt	●	●	●	●
LCD backlight	●	●	●	●
Analog bar	●	●	●	●
Low battery indication	●	●	●	●
Overload prompt	●	●	●	●
Light alarm				●
Buzzer alarm	●	●	●	●
Auto power off	●	●	●	
Timing measurement				●
Meets IEC 61557			61557-1:2007, 61557-2:2007	
Category ratings	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 1000V / CAT IV 600V
Certificates	CE/UKCA	CE/UKCA	CE/UKCA	

Features

- Auto range/auto power off
- Low battery indication
- Comparison measurement
- Polarization index (PI)
- Dielectric absorption ratio (DAR)
- LCD backlight
- Over-range warning
- High voltage indication
- Data storage: 18
- Analog bar graph: 30



UT513A

Test Voltage	Insulation resistance (Ω)	UT511	UT512	UT513A
Certificates	CE, UKCA			
100V	0.1M Ω ~500M Ω	$\pm(3\%+5)$		
250V	0.5M Ω ~2G Ω	$\pm(3\%+5)$		
500V	1M Ω ~4G Ω	$\pm(3\%+5)$		
	0.5M Ω ~5G Ω		$\pm(3\%+5)$	
	0.5M Ω ~20G Ω			$\pm(3\%+5)$
1000V	2M Ω ~10G Ω	$\pm(3\%+5)$	$\pm(3\%+5)$	
	1M Ω ~40G Ω			$\pm(3\%+5)$
1500V	5M Ω ~20G Ω		$\pm(3\%+5)$	
2500V	2.5M Ω ~100G Ω			$\pm(3\%+5)$
	10M Ω ~100G Ω		$\pm(3\%+5)$	
5000V	5M Ω ~1000G Ω			$\pm(3\%+5)$
DC voltage (V)	1000V	$\pm(2\%+3)$		
	600V		$\pm(2\%+5)$	$\pm(2\%+3)$
AC voltage (V)	750V	$\pm(2\%+3)$		
	600V		$\pm(2\%+5)$	$\pm(2\%+3)$
Test voltage accuracy		0%~10%	0%~20%	0%~20%
Short-circuit current		<2mA	<1.8mA	>3mA
Low resistance (Ω)	0.1 Ω ~999.9 Ω	$\pm(1\%+3)$		
Test voltage secondary display				\checkmark
USB interface			\checkmark	\checkmark
Timing measurement	Around 30 minutes	\checkmark		
	Around 15 minutes		\checkmark	\checkmark
IEC 61557	UT513A: 61557-1:2007; 61557-2:2007			
Category ratings	CAT III 600V; CAT II 1000V (UT511 only)			
Power	1.5V battery (LR14) x 8			

Characteristics

Standard accessories	2pcs of one plug test leads to one alligator clip (black and green), 1pcs of two plugs test lead to one alligator clip (red), batteries, USB cable (UT512/UT513A), power adaptor (UT512/UT513A), English manual
Optional accessories	Power adaptor (UT511)
Display	123 x 58mm
Product size	202 x 155 x 94mm
Product net weight	500g
Standard individual packing	Gift box, tool box
Standard quantity per carton	4pcs
Standard carton measurement	505 x 345 x 345mm
Standard carton gross weight	UT511: 13.4kg; UT512: 15.9kg; UT513A: 18.9kg