



# UT197PV

## Professional Multimeter-Solar Pro

The UT197PV is a rugged, high-precision true RMS handheld multimeter designed for industrial use. Key features include an IP67 rating for dust and water resistance, and the ability to withstand drops from up to 5 meters.

This multimeter is ideal for harsh outdoor environments, such as damp or sandy conditions and extreme cold. It is widely used in power engineering, HVAC, new energy and environmental protection etc..



AC/DC voltage  
measurement



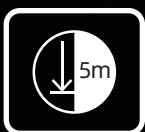
AC/DC power  
measurement



Peak capture  
(250μs)



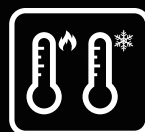
External clamp  
(Optional: UT-CS07)



5m drop  
protection



IP67  
protection

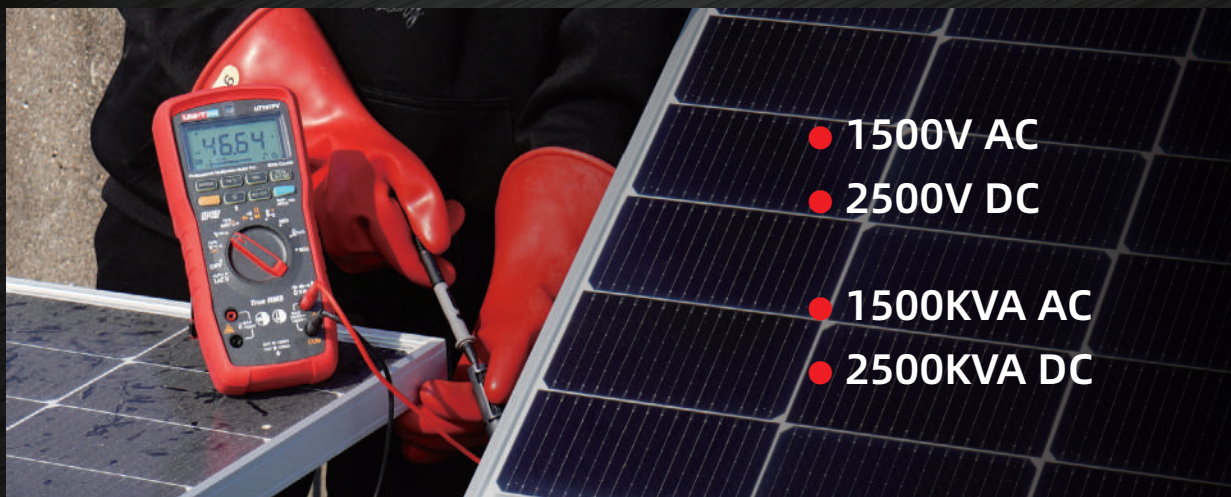


High Ruggedness  
(-40°C-55°C)

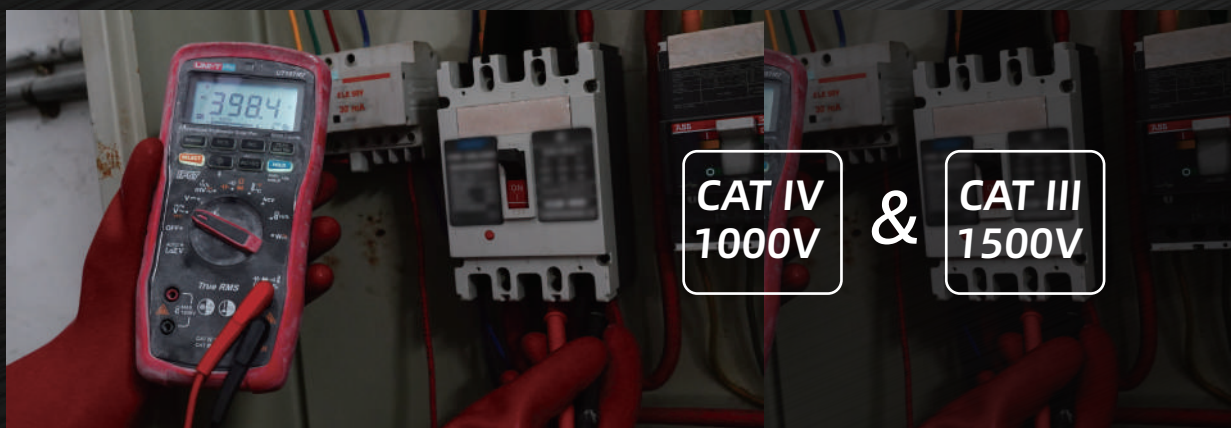


BT app  
supported

## Voltage & Power measurement



## Category rating



## High Ruggedness



5m drop proof

## Working environment



-40°C-55°C

## High Ruggedness



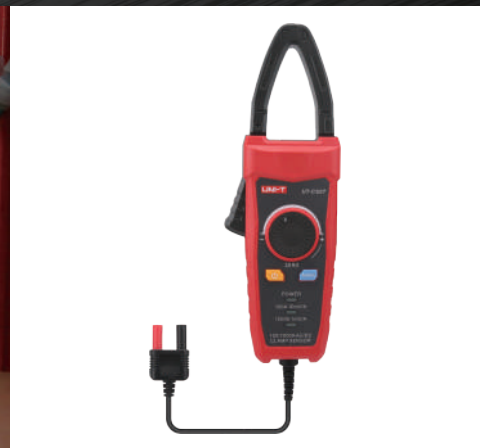
IP67 water/Dust proof

## Fast & Accuracy measurement



- 1, Captures fast transients as short as 250 $\mu$ s;
- 2, Ideal for complex signal measurement.

## External Clamp: UT-CS07 (Optional)



up to AC/DC 1000A

## BT APP: UNI-T Smart Measure



- Generating testing report;
- Generating real-time charts;
- Export multiple test data: PDF/XLS/JPEG/CSV;



UNIT Smart Measure  
(Google play)



UNI-T Smart Measure  
(iOS-app store)

## Technical Specifications

| Specification              |                                  |                                            |                                                        |
|----------------------------|----------------------------------|--------------------------------------------|--------------------------------------------------------|
| Voltage (DCV)              |                                  | 600.0mV                                    | ±(0.3%+5)                                              |
|                            |                                  | 6.000V/60.00V/600.0V                       | ±(0.2%+5)                                              |
|                            |                                  | 2500V                                      | ±(1.0%+5)                                              |
| Voltage (ACV)              | 45~1kHz                          | 600.00mV/6.000V/60.00V/600.0V/1500V        | ≥45Hz, <500Hz: ±(0.8%+3)<br>≥500Hz, <1kHz: ±(1.8%+3)   |
| VFD (ACV)                  | 45~200Hz                         | 600.0V/1500V                               | ±(2.0%+5)                                              |
| Auto Loz                   | 45~400Hz                         | 600.0V                                     | ±(1.5%+5)                                              |
|                            |                                  | 1500V                                      | ±(1.8%+5)                                              |
| ACV+DCV                    |                                  | 600.00mV/6.000V/60.00V/600.0V/1500V        | ≥45Hz, <500Hz: ±(1.5%+5);<br>≥500Hz, <1kHz: ±(2.5%+5); |
| Resistance                 |                                  | 600.0Ω                                     | ±(0.8%+5)                                              |
|                            |                                  | 6.000kΩ/60.00kΩ/600.0kΩ/6.000MΩ            | ±(0.5%+5)                                              |
|                            |                                  | 60.00MΩ                                    | ±(2.5%+5)                                              |
| Capacitance                |                                  | 60.00nF                                    | ±3.0%                                                  |
|                            |                                  | 600.0nF/6.000μF/60.00μF/600.0μF            | ±(3.0%+5)                                              |
|                            |                                  | 6.000mF/60.00mF                            | ±(10.0%+5)                                             |
| Continuity                 |                                  | 600.0Ω                                     | ±(1.0%+5)                                              |
| Diode                      |                                  | 3.2V                                       | ±(1.0%+5)                                              |
| Fequency                   |                                  | 99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz | ±(0.02%+5)                                             |
| Duty cycle                 |                                  | 10Hz~10kHz (10%~90%)                       | ±(2.0%+30)                                             |
| Temperature                |                                  | -40°C~1000°C                               | ±(1.0%+30)                                             |
|                            |                                  | -40°F~1832°F                               | ±(1.0%+60)                                             |
| External clamp (DCA)       | UT-CS07 (optional)               | 100A(10mV/A) & 1000A(1mV/A)                | ±(0.8%+5)                                              |
| External clamp (ACA)       | UT-CS07 (optional)               | 45~400Hz: 100A(10mV/A) & 1000A(1mV/A)      | ±(1.0%+5)                                              |
| AC Power 100A (10mV/A)     | Active power                     | 60.00kW/150.0kW                            | ±(3.0%+5)                                              |
|                            | Apparent power                   | 60.00kVA/150.0kVA                          | ±(2.0%+5)                                              |
|                            | Reactive power                   | 60.00kVAr/150.0kVAr                        | ±(5.0%+5)                                              |
|                            | Factor                           | -1~1                                       |                                                        |
| AC Power 1000A(1mV/A)      | Active power                     | 600.0kW/1500kW                             | ±(3.0%+5)                                              |
|                            | Apparent power                   | 600.0kVA/1500kVA                           | ±(2.0%+5)                                              |
|                            | Reactive power                   | 600.0kVAr/1500kVAr                         | ±(5.0%+5)                                              |
|                            | Factor                           | -1~1                                       |                                                        |
| DC Power 100A (10mV/A)     |                                  | 60.00kVA/250.0kVA                          | ±(3.0%+5)                                              |
| DC Power 1000A (1mV/A)     |                                  | 60.00kVA/2500kVA                           | ±(3.0%+5)                                              |
| Display count              | 6000                             |                                            |                                                        |
| True RMS                   | √                                |                                            |                                                        |
| PEAK                       | √ (250μs bandwidth pulse signal) |                                            |                                                        |
| Multifunctional protection | √                                |                                            |                                                        |
| Bluetooth app              | √                                |                                            |                                                        |
| Drop protection            | 5m                               |                                            |                                                        |
| IP rating                  | IP67                             |                                            |                                                        |
| Working temperature        | -40~55°C                         |                                            |                                                        |
| Overvoltage category       | CAT IV 1000V/CAT III 1500V       |                                            |                                                        |

The device also includes the following features: analog bar display, non-contact voltage detection (NCV), auto-ranging capability, relative measurement mode (REL), max/min recording, data hold function, high-voltage alert system, low-battery indicator, auto-adjusting backlight, and automatic power-off (APO).



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**TECHNOLOGY**



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