



# UNI-T UT196 True RMS Solar Digital Multimeter Instructions

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**UNI-T UT196 True RMS Solar Digital Multimeter**



## Product Information

### Specifications

- **Certificates:** CE, UKCA, cETLus
- **DC Voltage (V):** 1700V
- **AC Voltage (V):** 1500V
- **Frequency (Hz):** 1MHz
- **Resistance ( $\Omega$ ):** 60M
- **Capacitance (F):** 60mF
- **Display Count:** Dual display
- **Auto Range:** Yes
- **Non-Contact Voltage (NCV):** Yes
- **Diode Test:** Yes
- **Continuity:** Yes
- **Relative Mode:** Yes
- **Max/Min:** Yes
- **Peak Hold:** Yes
- **Low Pass Filter (LPF):** Yes
- **Audible and Visual Indication:** Yes
- **Low Battery Indication:** Yes

### Product Usage Instructions

#### 1. Measuring DC Voltage

To measure DC voltage using the UT196 True RMS solar digital multimeter, follow these steps:

1. Turn on the multimeter by pressing the power button.

2. Select the DC voltage measurement mode.
3. Connect the multimeter's probes to the circuit or component you want to measure.
4. Read the voltage value displayed on the dual display.

## **2. Measuring AC Voltage**

To measure AC voltage using the UT196 True RMS solar digital multimeter, follow these steps:

1. Turn on the multimeter by pressing the power button.
2. Select the AC voltage measurement mode.
3. Connect the multimeter's probes to the circuit or component you want to measure.
4. Read the voltage value displayed on the dual display.

## **3. Measuring Frequency**

To measure frequency using the UT196 True RMS solar digital multimeter, follow these steps:

1. Turn on the multimeter by pressing the power button.
2. Select the frequency measurement mode.
3. Connect the multimeter's probes to the circuit or component you want to measure.
4. Read the frequency value displayed on the dual display.

## **4. Measuring Resistance**

To measure resistance using the UT196 True RMS solar digital multimeter, follow these steps:

1. Turn on the multimeter by pressing the power button.
2. Select the resistance measurement mode.
3. Connect the multimeter's probes to the circuit or component you want to measure.
4. Read the resistance value displayed on the dual display.

## **FAQ**

### **1. Q: What is the IP65 protection rating?**

A: The IP65 protection rating means that the UT196 solar digital multimeter is dust-tight and protected against water jets from any direction.

### **2. Q: Can the UT196 withstand drops?**

A: Yes, the UT196 is designed to withstand drops of up to 2 meters.

### **3. Q: What is the purpose of the low-pass filter function?**

A: The low-pass filter function helps isolate high-frequency noise generated by the drive controller, allowing for more accurate measurements in noisy environments.

### **4. Q: Is the UT196 safe to use in different environments?**

A: Yes, the UT196 has been tested for safe usage in CAT III 1000V and CAT IV 600V environments, making it suitable for a wide range of applications.

## **UT196 Professional Multimeter – Solar Pro**



- True RMS
- Measure up to DC 1700V and AC 1500V for high voltage applicants such as solar array, wind and other power utility maintenance
- Analog bar
- **Frequency response:** 45Hz~1kHz
- IP65 protocol



- UT196 True RMS solar digital multimeter is an ideal tool for solar power system maintenance. This rugged meter is designed for technicians who work in rugged outdoor environments. UT196 can measure up to 1700V DC and 1500V AC voltages, and 3000A AC current with an external current clamp sensor. This solar meter offers IP65 protection and able to withstand 2m drop as well.
- The low-pass filter function allows the meter to isolate high-frequency noise generated by the drive controller. Its low impedance mode can help technicians to troubleshoot sensitive circuits as well as circuits that may contain ghost voltages. The built-in flashlight, bright backlight and visual alarm enable users to finish the work safely and efficiently even in dark and noisy environments.
- UT196 solar digital multimeter is designed with 1700V DC, 1500Vrms AC overload protection and tested for safe usage in CAT III 1000V, CAT IV 600V environments.

Specifications	UT196	
Certificates	CE, UKCA, cETLus	
DC voltage (V)	1700V	$\pm(0.2\%+5)$
AC voltage (V)	1500V	$\pm(0.8\%+3)$
Frequency (Hz)	1MHz	$\pm(0.08\%+4)$
Resistance ( $\Omega$ )	60M $\Omega$	$\pm(0.8\%+2)$
Capacitance (F)	60mF	$\pm(1.9\%+5)$
<b>Features</b>		
Display count		6000
Dual display		√
Auto range		√
NCV		√
Diode test		√
Continuity		√
Relative mode		√
Max/Min		√
Peak hold		√
Low pass filter(LPF)		√
Audible and visual indication		√
Low battery indication	<7.5V	√
Data hold		√
Analog bar graph		√
Auto power off	15minutes	√
Flashlight		√
IP rating		IP65
Drop test		2m
Safety rating		CAT III 1000V, CAT IV 600V



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## Documents / Resources



[UNI-T UT196 True RMS Solar Digital Multimeter](#) [pdf] Instructions

UT196, UT196 True RMS Solar Digital Multimeter, True RMS Solar Digital Multimeter, RMS Solar Digital Multimeter, Solar Digital Multimeter, Digital Multimeter, Multimeter

## References

- [User Manual](#)