



English

## Product Datasheet

Stock No: 193-8689

# Solar Power Meter & Multimeter



## Introduction

The solar power meter and Digital Multimeter is an instrument to measure solar power (sunlight) and measures DC/AC Voltage, DC/AC Current, Resistance (inc continuity). Solar power measurements are expressed in W/m<sup>2</sup> or BTU(ft<sup>2</sup>\*h)

## Electrical Specification

Operating temp & RH	5°C–40°C, below 80%RH.
Storage temp & RH	-10°C–60°C, below 70%.
Display	3-1/2 digits LCD with maximum reading 1999.
Sampling time	Appro x 0.25 second.
Resolution	1W/m <sup>2</sup> ; 1BTU(ft <sup>2</sup> *h).
Accuracy	typically within $\pm 10\text{W/m}^2$ [ $\pm 3\text{BTU (ft}^2 \text{ *h)}$ ]or $\pm 5\%$ , whichever is greater in sunlight; Additional temperature induced error $2 \pm 0.38\text{W/m} / ^\circ\text{C}$ .
Accuracy	< $\pm 3/$ year.
Over-input	Display shows 'OL'.
Range	2 2 1999W/m , 634BTU(ft *h).
Size	162(L)*74(W)*43(H)
Weight(includeing battery)	About 280g

## Digital Multimeter

Function	Range	Accuracy
DC Voltage	200mV,	$\pm (0.5\% \text{ rdg} + 3\text{d})$
	2.000V, 20.00V,	$\pm (1.0\% \text{ rdg} + 3\text{d})$
	200.0V, 600V	$\pm (1.0\% \text{ rdg} + 3\text{d})$
AC Voltage 50-60Hz	2.000V, 20.00V	$\pm (1.0\% \text{ rdg} + 5\text{d})$
	200.0V, 600V	$\pm (1.5\% \text{ rdg} + 10\text{d})$
DC Current	200.0 $\mu$ A, 2000 $\mu$ A	$\pm (1.5\% \text{ rdg} + 3\text{d})$
	20.00mA, 200.0mA	$\pm (2.0\% \text{ rdg} + 3\text{d})$
AC Current	200.0 $\mu$ A, 2000 $\mu$ A	$\pm (1.8\% \text{ rdg} + 8\text{d})$
	20.00mA, 200.0mA	$\pm (2.5\% \text{ rdg} + 8\text{d})$
Resistance	200.0 $\Omega$	$\pm (0.8\% \text{ rdg} + 5\text{d})$
	2.000k $\Omega$ , 20.00k $\Omega$ , 200.0k $\Omega$	$\pm (1.2\% \text{ rdg} + 3\text{d})$
	2.000M $\Omega$	$\pm (2.0\% \text{ rdg} + 5\text{d})$
	20.00M $\Omega$	$\pm (5.0\% \text{ rdg} + 8\text{d})$

Max input voltage	600V AC/DC
Diode Test	Test current 1mA max., open circuit voltage of 1.5V typical
Continuity Check	Audible signal if the resistance is $< 150\Omega$
Display	2000 count 3 - 1/2 digit LCD
Over range indication	LCD displays "OL"
Polarity	Minus (-) sign for negative polarity.
Low Battery Indication	"BAT" symbol indicates low battery condition.
Input Impedance	$> 7.5M\Omega$ (VDC & VAC)
AC Response	Average responding
ACV Bandwidth	50Hz to 60Hz
Auto Power Off	15 minutes (approximately)
Fuse	Ranges; 0.2A/250V fast acting Fuse
Batteries	9V battery and two "AAA" batteries
Operating Temperature	0°C to 40°C(32°F to 104°F)
Storage Temperature	-10°C to 50°C(14°F to 122°F)
Standard	IEC61010-1 CAT III-600V Pollution degree II, CE Approved

**Accessories:**

9V battery & Two "AAA" batteries, remote terminator and gift box with carrying case.