



SL500 - Expert Solar PV Installers Test KIT

- **W/m² & BTU/ft²*h Measurement**
- **1000V DC VOC**
- **AC/DC Power to 600kW**
- **1500A AC/DC**
- **Min/Max & Hold**
- **Type 4 Lead Set & T**
- **Dual Display**
- **Soft Carry Case**



The SL500 is the Expert Solar PV test kit designed to assist in the commercial installation of Solar PV systems. The kit includes the SL102 - Irradiance Meter and the DL6508 – 1500A AC/DC Current Clamp with 1000V DC VOC measurement Plus Power measurement to 600kW with the type 4 T connector supplied.

The SL102, with its Multi-meter like design, enables you to perform safe and accurate measurements, even when working at heights. The SL102 also features a dual display which allows you to simultaneously record the Irradiance level and Voltage output (VOC) with the panel connected in situ via Type 4 lead set provided.

SL102 - Key Features

- Sunlight measurement to 1999w/m²
Or 634BTU/(ft²*h)
- MC4 type Lead for VOC Measurement
- Minimum and maximum values record

DL6508 - Key Features

- DC Voltage to 1000V,
- AC-DC Current to 1500A
- Resistance to 40M Ω
- Temperature via K-type

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SL102 - SPECIFICATIONS

Irradiance (Auto-ranging)

Range	Resolution	Accuracy
1999w/m ²	1w/m ²	Typically within ±5% of rdg or ±10W/m ²
634BTU/(ft ² *h)	1 BTU/(ft ² *h)	Typically within ±5% of rdg or ±3 BTU/(ft ² *h)

Sample Time: 0.25 Seconds.

Accuracy: As above plus "whichever is greater in sunlight; Additional temperature included in error ±0.38W/m²/°C.
< ±3/year

DC Voltage (Auto-ranging)

Range	Resolution	Accuracy
200mV	1mV	±0.5 % of rdg + 3 dgts
2.000V	0.001V	±1.0% of rdg + 3 dgts
20.00V	0.01V	±1.0 % of rdg + 3 dgts
200.0V	0.1V	±1.0 % of rdg + 3 dgts
600V	1V	±1.0 % of rdg + 3 dgts

Input Impedance: 7.5MΩ.

Maximum Input: 600V DC or 600V AC rms.

AC Voltage (Auto-ranging)

Range	Resolution	Accuracy
2.000V	0.001V	±1.0 % of rdg + 5 dgts
20.00V	0.01V	±1.0 % of rdg + 5 dgts
200.0V	0.1V	±1.5 % of rdg + 10 dgts
600.0V	1V	±1.5 % of rdg + 10 dgts

Input Impedance: 7.5MΩ.

Frequency Range: True RMS, 50 to 60Hz

Maximum Input: 600V DC or 600V AC rms.

DC Current (Auto-ranging)

Range	Resolution	Accuracy
200.0μA	0.1μA	±1.5 % of rdg + 3 dgts
2000μA	1μA	±1.5 % of rdg + 3 dgts
20.00mA	0.01mA	±2.0 % of rdg + 3 dgts
200.0mA	0.1mA	±2.0 % of rdg + 3 dgts

Overload Protection: 200mA Fused / 250V.Fast Acting

Maximum Input: 200mA

AC Current (Auto-ranging)

Range	Resolution	Accuracy
200.0μA	0.1μA	±1.8 % of rdg + 8 dgts
2000μA	1μA	±1.8 % of rdg + 8 dgts
20.00mA	0.01mA	±2.5 % of rdg + 8 dgts
200.0mA	0.1mA	±2.5 % of rdg + 8 dgts

Overload Protection: 200mA Fused / 250V.

Maximum Input: 200mA

Resistance (Auto-ranging)

Range	Resolution	Accuracy
200.0Ω	0.1Ω	±0.8 % of rdg + 5 dgts
2.000kΩ	0.001kΩ	±1.2 % of rdg + 3 dgts
20.00kΩ	0.01kΩ	±1.2 % of rdg + 3 dgts
200.0kΩ	0.1kΩ	±1.2 % of rdg + 3 dgts
2.000MΩ	0.001MΩ	±2.0 % of rdg + 5 dgts
20.00MΩ	0.01MΩ	±5.0 % of rdg + 8 dgts

Input Protection: 600V DC or 600V AC RMS.

Audible continuity

Audible threshold: Less than <150Ω;

Test current: 0.35mA

Overload protection: 600V DC or AC RMS.

Diode Test

Test current: 1mA max typical/Open MAX 3V DC

Open circuit voltage: MAX 2.8V DC

Overload protection: 600V DC AC RMS.

Miscellaneous

Operating Temp: 5°C-40°C, below 80%RH

Display: 3 ½ digits LCD with max reading 1999

Supplied with: 1 x 9V battery & 2 x 1.5 AAA & Carry Case

Dimensions: 162(H) x 74.5(W) x 44(D) mm

Weight: About 308g

**All Di-log Solar Testers
supported by a
2 Year Warranty**



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DL6508 - SPECIFICATIONS

DC Voltage

Range	Resolution	Accuracy
400.00mV	0.01mV	±0.1 % of rdg ± 5 dgts
4.0000V	100uV	±0.1 % of rdg ± 4 dgts
40.000V	1mV	±0.1 % of rdg ± 4 dgts
400.00V	100mV	±0.1 % of rdg ± 4 dgts
1000.0V	0.1V	±0.5 % of rdg ± 4 dgts

Maximum Input: 1000V DC

AC Voltage

Range	Resolution	Accuracy
400.00mV	10uV	±0.8 % of rdg ± 40 dgts
4.0000V	0.1mV	±1.0 % of rdg ± 30 dgts
40.000V	1mV	±1.0 % of rdg ± 30 dgts
400.00V	10mV	±1.0 % of rdg ± 30 dgts
0750.0V	0.1V	±1.0 % of rdg ± 30 dgts

Maximum Input: 750VAC

Frequency: 50Hz to 1000Hz

Note: No Autoranging on 400mV Range

DC Current

Range	Resolution	Accuracy
400.00A	10mA	±2.0 % of rdg ± 30 dgts
1500.0A	100mA	±2.5 % of rdg ± 30 dgts

Maximum Input: 1500A

AC Current

Range	Resolution	Accuracy
400.00A	10mA	±2.8 % of rdg ± 30 dgts
1500.0	100mA	±2.8 % of rdg ± 30 dgts

Maximum Input: 1000A

Audible continuity

Audible threshold: Less than 50Ω

Test current: <1mA

Overload protection: 250V DC or 250VAC.

Resistance

Range	Resolution	Accuracy
400.00Ω	0.01Ω	±0.5 % of rdg ± 9 dgts
4.0000kΩ	0.1Ω	±1.0 % of rdg ± 4 dgts
40.000kΩ	1Ω	±1.0 % of rdg ± 4 dgts
400.00kΩ	10Ω	±1.0 % of rdg ± 4 dgts
4.0000MΩ	0.1kΩ	±2.0 % of rdg ± 10 dgts
40.000MΩ	1kΩ	±3.0 % of rdg ± 10 dgts

Input Protection:

Capacitance

Range	Resolution	Accuracy
400.00nF	10pF	±3.5 % of rdg ± 40 dgts
4000.0nF	0.1pF	±3.0 % of rdg ± 10 dgts
40.00uF	10nF	±3.5 % of rdg ± 10 dgts
400.0uF	100nF	±3.5 % of rdg ± 10 dgts
4.000mF	1uF	±5.0 % of rdg ± 10 dgts
20.00mF	10uF	±5.0 % of rdg ± 10 dgts
40.00mF	10uF	

Input Protection: 250V DC or 250V AC

Power Measurement

Function	Range	Accuracy
AC kW kVA	900.0 kW	± 3 % of rdg ± 10 dgts
(AC kW/kVA TRMS 0-600 V, 0-1500A 50/60 Hz)		
DC kW kVA	900.0 kW	± 3 % of rdg ± 10 dgts
(DC kW/kVA 0-600 V, 0-1500A 50/60 Hz)		
Power Factor	0.3-1	± 3 % of rdg ± 10 dgts

Temperature

Range	Resolution	Accuracy
-100.0 to 1000.0°C	0.1°C	±1.0 % of rdg ± 2.5°C
-148.0 to 1832.0°F	0.1°F	±1.0 % of rdg ± 4.5°C

Maximum Input: 60V DC or 24V AC

Frequency

Range	Resolution	Accuracy
40.000Hz	0.001Hz	±0.3 % of rdg ± 2 dgts
40.000Mhz	1kHz	±0.3 % of rdg ± 2 dgts

Diode Test

Test current: 0.3mA typical

Open circuit voltage: 1.5V DC typical

Overload protection: 250V DC or AC

Duty Cycle

Range	Resolution	Accuracy
10.0 to 95.0%		±1.0 % of rdg ± 2 dgts
Pulse width: 100us to 100ms, Frequency: 10Hz - 100kHz		

Supplied with 1x 9V battery

Dimensions: 294(H) x 105(W) x 47(D) mm

Weight: 536g

**All Di-log Clamp Meters
supported by a
2 Year Warranty**



EMC & LVD
EN: 50081-1, 50082-1
EN: 61010-1, EN 61010-02-031
CAT III 600V CAT II 1000V

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