



**Di-LOG**  
 ...measurably greener  
**SOLAR**

# SL300 - Solar Power KIT



- W/m<sup>2</sup> & BTU/ft<sup>2</sup> Measurement

- Double Moulded

- Min/Max & Hold

- 1000A AC/DC

- MC4 Leads

- Dual Display

- Auto Power Off

- Soft Carry Case

- Simultaneous Solar and Voltage Measurement

**SL102 - Features**

- Sunlight measurement to 1999w/m<sup>2</sup>  
Or 634BTU/(ft<sup>2</sup>\*h)
- High accuracy and rapid response
- MC4 Lead for VOC Measurement
- Minimum and maximum values

**DL6402- Features**

- AC-DC Voltage to 600V,
- AC-DC Current to 1000A
- Resistance to 40MΩ
- Temperature to 1000°C

[www.dilog.co.uk](http://www.dilog.co.uk)

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# SPECIFICATIONS

## Irradiance (Auto-ranging)

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

Sample Time: 0.25 Seconds.

Accuracy: As above plus "whichever is greater in sunlight; Additional temperature included in error ±0.38W/m<sup>2</sup> /°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.

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, MC4 lead set & Carry Case

Dimensions: 162H) 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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# SPECIFICATIONS

## DC Voltage

Range	Resolution	Accuracy
400.0mV	0.1mV	±0.8 % of rdg ± 3 dgts
4.000V	1mV	±1.5 % of rdg ± 3 dgts
40.00V	10mV	±1.5 % of rdg ± 3 dgts
400.0V	100mV	±1.5 % of rdg ± 3 dgts
600V	1V	±2.0 % of rdg ± 2 dgts

Maximum Input: 600V DC

## AC Voltage

Range	Resolution	Accuracy
400.0mV	0.1mV	±1.8 % of rdg ± 20 dgts
4.000V	1mV	±1.8 % of rdg ± 5 dgts
40.00V	10mV	±1.8 % of rdg ± 5 dgts
400.0V	100mV	±1.8 % of rdg ± 5 dgts
600V	1V	±2.5 % of rdg ± 5 dgts

Maximum Input: 600VAC

Note: No Autoranging on 400mV Range

## DC Current - DL6402 Only

Range	Resolution	Accuracy
40.00A	10mA	±2.8 % of rdg ± 10 dgts
400.0A	100mA	±2.8 % of rdg ± 5 dgts
1000A	1A	±3.0 % of rdg ± 5 dgts

Maximum Input: 1000A

## AC Current

Range	Resolution	Accuracy
40.00A	10mA	±3.0 % of rdg ± 10 dgts
400.0A	100mA	±3.0 % of rdg ± 5 dgts
1000A	1A	±3.0 % of rdg ± 5 dgts

Maximum Input: 1000A

## Resistance

Range	Resolution	Accuracy
400.0Ω	0.1Ω	±1.0 % of rdg ± 4 dgts
4.000kΩ	1Ω	±1.5 % of rdg ± 2 dgts
40.00kΩ	10Ω	±1.5 % of rdg ± 2 dgts
400.0kΩ	100Ω	±1.5 % of rdg ± 2 dgts
4.000MΩ	1kΩ	±1.5 % of rdg ± 2 dgts
20.00MΩ	10kΩ	±3.5 % of rdg ± 10 dgts
40.00MΩ	10kΩ	±3.5 % of rdg ± 10 dgts

Input Protection: 250V DC or 250V AC

## Capacitance - DL6402 only

Range	Resolution	Accuracy
40.00nF	10pF	±5.0 % of rdg ± 100dgts
400.0nF	0.1pF	±3.0 % of rdg ± 5 dgts
4.000uF	1nF	±3.5 % of rdg ± 5 dgts
40.00uF	10nF	±3.5 % of rdg ± 8 dgts
100.0uF	0.1uF <20uF	±5.0 % of rdg ± 5 dgts

Input Protection: 250V DC or 250V AC

## Diode Test - DL6402 only

Test current: 0.3mA typical

Open circuit voltage: 1.5V DC typical

Overload protection: 250V DC or AC

## Audible continuity - DL6402 only

Audible threshold: Less than 100Ω

Test current: <1mA

Overload protection: 250V DC or 250VAC.

## Temperature - DL6402 only

Range	Resolution	Accuracy
-20 to 100.0°C		±3.0 % of rdg ± 5 dgts
-4 to 1832°F		±3.0 % of rdg ± 7 dgts

Maximum Input: 60V DC or 24V AC

## Frequency - DL6402 only

Range	Resolution	Accuracy
5.000Hz	0.001Hz	±1.5 % of rdg ± 5 dgts
50.00Hz	0.01 Hz	±1.2 % of rdg ± 2 dgts
500.0Hz	0.01Hz	±1.2 % of rdg ± 2 dgts
5.000kHz	1Hz	±1.2 % of rdg ± 2 dgts
50.00kHz	10Hz	±1.2 % of rdg ± 2 dgts
100.0kHz	100Hz	±1.2 % of rdg ± 2 dgts

Maximum Input: 250V DC or 250V AC

## Duty Cycle - DL6402 only

Range	Resolution	Accuracy
0.5 to 99%		±3.0 % of rdg ± 5°C

Pulse width: 100us to 100us, Frequency: 5.000Hz

## Miscellaneous

Supplied with 1x 9V battery

Dimensions: 229(H) x 80(W) x 49(D) mm

Weight: 303g

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

**C**

EMC & LVD

EN: 50081-1, 50082-1

EN: 61010-1, EN 61010-02-031

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