

SL550

Advanced CAT III 1500V Solar PV Test Kit

The Di-LOG SL550 Solar PV Test Kit is a complete, high-performance solution for the installation, commissioning and maintenance of modern solar photovoltaic systems. Combining a precision solar irradiance survey meter, CAT III 1500V DC True RMS clamp meter and professional MC4 test leads, the SL550 provides accurate solar PV testing in one portable kit.

Designed for domestic and commercial PV applications, the SL550 enables full system verification by measuring irradiance, module temperature, DC voltage, AC/DC current, power and energy. The advanced survey functionality supports IEC 62446-1 compliant testing, the international standard for grid-connected PV system documentation, commissioning and inspection. This includes irradiance measurement up to 1400W/m², panel surface and underside temperature, roof pitch and array orientation for accurate installation and performance validation.

For electrical testing, the 1500V DC clamp meter delivers True RMS accuracy with measurement up to 1500V DC and 1000A AC/DC, ideal for high-efficiency PV arrays and inverter systems. Advanced diagnostics including power and energy analysis (kW, kVA, kVAR and kWh), harmonic measurement, inrush current capture and LowZ testing support efficient fault finding and troubleshooting.

Supplied with CAT III 1500V MC4 solar test leads, the SL550 ensures safe, secure connections for open circuit voltage testing and system checks at the array. Built for durability and ease of use, it provides a reliable, all-in-one solution for modern PV testing and compliance.

Kit includes:

- **SL104 - Solar Irradiance Survey Meter**
- **DL6415BT - TRMS 1500V CAT III 1000A AC/DC Clamp Meter**
- **SLLSC4 - Type 4 CAT III 1500V Solar Test Lead Set with Solar Spanner**
- **Heavy Duty IP67 Test Kit Carry Case**

Accessories included:

- **Test Lead Set with GS38 shrouded probes**
- **External Temperature Probe**
- **K-Type Adaptor**
- **K-Type Temperature Thermocouple**
- **Li-ion Battery (DL6415 only)**
- **Battery Charger (DL6415 only)**



Sales: +44(0)161 877 0322
Email: sales@dilog.co.uk
Web: www.dilog.co.uk

All Di-LOG Solar Kit
supported by a
2-Year Warranty

SL104

Solar Irradiance Survey Meter

The Di-LOG SL104 Solar Irradiance Survey Meter is the ideal tool for pre-install survey, installation and maintenance of Solar Thermal and Solar Photovoltaic (PV) systems. The high-precision survey meter combines everything that the renewable energy installer requires in one simple handheld device measuring the solar irradiance, cell surface temperature either with the inbuilt sensor or external probe, array/roof pitch angle and magnetic direction with the inbuilt magnetometer enabling it to meet the defined standards outlined in IEC 62446-1.

Key Features:

- **Solar Irradiance Measurement to 1400W/m²:** Indicating in real time how much solar power is available to convert into electricity.
- **Inbuilt Cell Temperature Sensor:** The inbuilt surface probe located on the base of the SL104 offers a quick indication of the surface cell temperature.
- **External Cell Temperature Probe:** The attachable external probe connects directly to the SL104 and offers a quick indication of the underside cell temperature of the panel.
- **Inbuilt Magnetometer Compass:** The inbuilt compass enables you to determine the roof direction to gain an accurate array direction.
- **Roof Pitch Inclinometer:** The integrated inclinometer will assist to determine an accurate pitch of the roof angle the array is intended to be mounted on helping calculate the efficiency of the array.

Applications:

Electrical engineering | Domestic and commercial solar thermal and solar PV installation

SL104 Solar Irradiance Survey Meter	
SL104	
Irradiance Range	0 - 1400 W/m ²
Resolution & Accuracy	1 W/m ² ±(5% + 5 Digits)
Meter Temperature Range	-10°C to 50°C (14°F to 122°F)
Probe Temperature Range	-30°C to 100°C (-22°F to 212°F)
Inclination Measurement	-90° to 90° (0.1° Resolution)
Compass Measurement	0° to 360° (1° Resolution)
Dimensions	176mm x 70mm x 40mm
Weight (net)	390g (inc probe & batteries)
Power supply	4 x AA Battery (LR6/GLR6A) supplied
Supplied with	Temperature Probe & Case
Warranty	2 years
EAN	5060082544729



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DL6415BT

TRMS 100A AC/DC Clamp Meter

The Di-log DL6415BT is a professional solar-ready clamp meter designed for safe and accurate measurement in high-voltage DC and AC environments. With a CAT III 1500V DC safety rating and True RMS performance, it delivers reliable results across a wide range of applications, including photovoltaic installation, maintenance and troubleshooting. Combining advanced power analysis, LowZ functionality to eliminate ghost voltage, and a clear full-colour display, the DL6415BT provides electricians and engineers with a versatile, high-performance solution for modern electrical testing.

Key Features:

- **Safety and Protection:** Rated CAT IV 600V/CAT III 1500V for safe operation and complete protection across all measurement ranges.
- **Versatile Voltage Measurement:** Handles both AC and DC voltages up to 1000V AC & 1500V DC, making it adaptable to various applications.
- **Compact and Ergonomic Design:** The streamlined body and 37mm jaw opening allow for easy handling and access to confined spaces.
- **Comprehensive Measurement Capabilities:** Includes additional functions such as kVA/kW/kVAh/kVAh Power Measurement, Energy, Harmonics, Inrush Current and a 60,000 count full colour display.
- **Smart Connectivity:** Bluetooth with mobile app support with rechargeable 1200mAh Li-ion battery.

Applications:

Electrical engineering | Domestic and commercial solar installations
Industrial maintenance | HVAC systems | Automotive diagnostics

Specifications

Measurement	
AC Voltage	0.0001V - 1000V AC
DC Voltage	1mV - 1500DC
Non-contact Voltage	1000V AC
AC Current	0.1A - 1000A AC
DC Current	0.001A - 1000A DC
Low Z (Ghost Voltage)	600.0V
Power - kW/kVA/ kVAh Power Measurement	0.01 - 999.9
DC Power	0.01 - 999.9
Energy - kWh/kVAh/ kVAh Power Measurement	0.001 - 99.99
Power Factor	0.2 - 1 (0.01 resolution)
Resistance	0.0001 Ω - 60.00M Ω
Capacitance	0.01nF - 100.00 mF
Frequency	0.01Hz - 10.00MHz
Temperature °C	-40°C to 1000°C
Temperature °F	-40°F to 1832°F
Diode test	1.0 mA typical 3.2V DC
Other Information	
Clamp Jaw Size	37mm
Power supply	1 x 7.4V Li-ion Battery 1200mAh (supplied)
Dimensions	286 x 100 x 49 mm
Weight	506g (excluding battery)

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