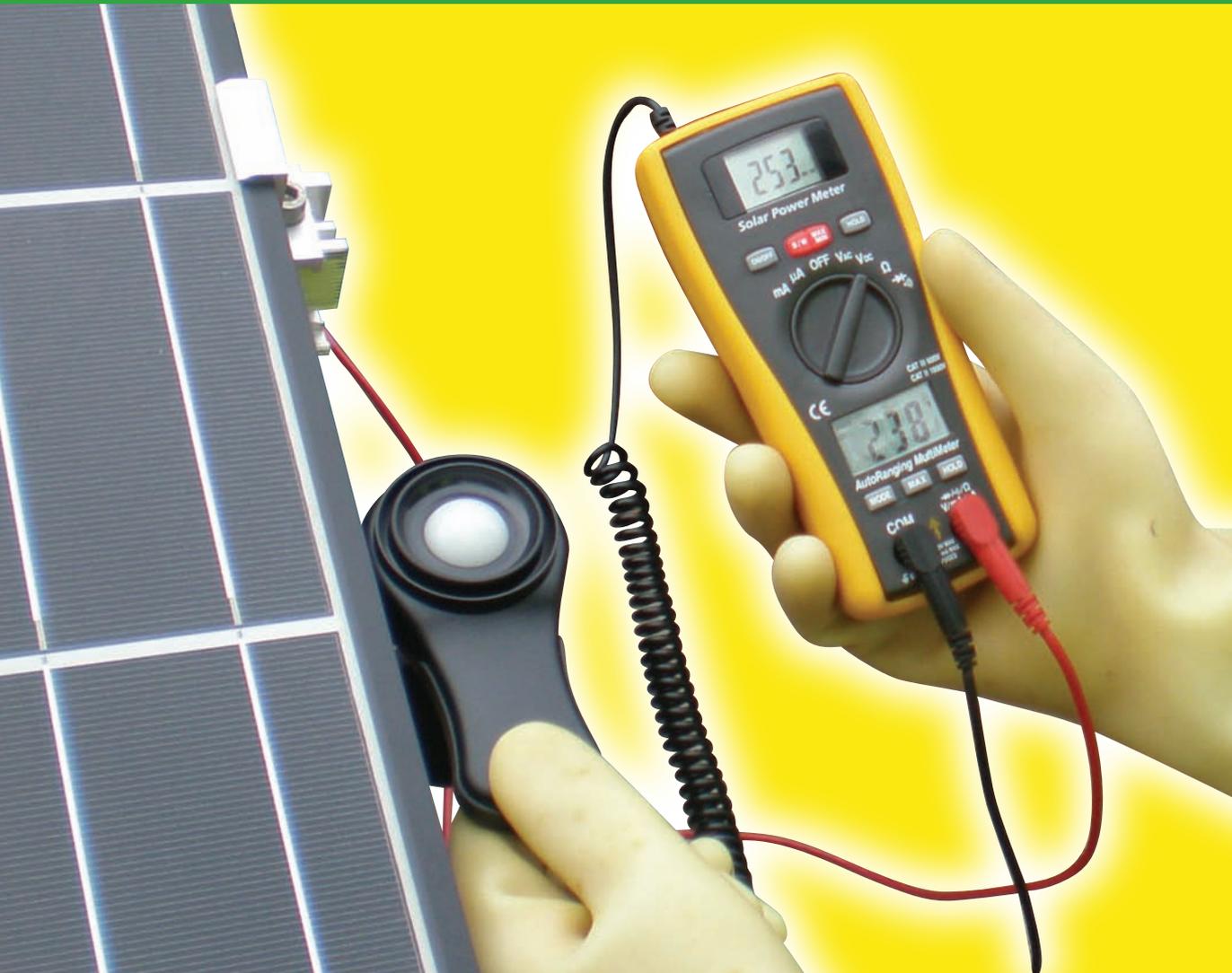


Di-LOG

...measurably greener

S O L A R

Solar PV Test Equipment & Accessories Catalogue



0800 018 9112
www.dilogsolar.com

Di-LOG
GROUP

Part of the
DI-LOG GROUP



Contents

Solar PV Test Kits 3

Irradiance Meters..... 4

DC Current Clamps 4

Proving Unit Kits..... 5

Tester Accessories..... 5

Solar PV Tools..... 6

Solar PV Accessories .. 7

ORDERING INFORMATION:

Tel: **0800 018 9112**

Fax: 0800 018 6711

E-mail: sales@dilogsolar.com

Welcome to Di-log Solar

The new “Greener” member of the Di-log Group.

Test equipment is a huge part of a typical PV installation. All installers will require the ability to measure Irradiance levels, in either W/m^2 or $BTU/ft^2 \cdot h$. Plus voltage and current measurement, either by clamp meter or multimeter.

The new range of test equipment from Di-Log Solar includes a high specification Irradiance Solar Meter (SL102) and PV Installation kits.

The **SL102**, with its unique dual display is the only tester on the market to enable the installer to accurately measure Irradiance, and connect directly to the panel's terminal to measure Voltage (VOC), with the supplied, Type 4 test leads for Type 4 and MC4 connections on panels.

Thus you can safely test the panel in situ whilst measuring the Irradiance levels before fitting the panel on the roof.

The **SL300** test kit, includes the **SL102** and the **Di-log DL6402**, our biggest selling DC current clamp meter. The kit is supplied in a soft carry case, making it portable and easy to take on site.

Visit: www.dilogsolar.com

Or follow us on - Di-log Group



SL200

Compact Solar PV Test Kit



The SL200 Solar PV test kit includes the SL101 - Solar Irradiance Meter and the DL6402 - AC/DC current clamp meter packaged in a soft compact carry case.

The Kit also includes an SLLSC4 - 4mm Type 4 test lead set for Voltage (VOC) measurement on the DL6402.

SL101 - Features:

- Solar Irradiance measurement to 1999 W/m² or 634BTU/ft²*h
- Auto Hold
- Min/Max Record

For Technical Specifications see page 4

DL6402 -Features:

- Audible Continuity
- Temperature thermocouple and K-Type adaptor supplied
- 1000 AC/DC Current reading
- AC/DC voltage up to 600V

For Technical Specifications see page 4

SL300

Advanced Solar PV Test Kit



The SL300 is a professional Solar PV test kit designed to assist in the installation of Solar PV systems. The kit includes the SL102 - Irradiance Meter and the DL6402 - AC/DC Current Clamp all packaged in a soft carry case.

The SL102 features a dual display which allows you to simultaneously record the Irradiance level and Voltage output (VOC). The kit also includes an SLLSC4 - 4mm type 4 test lead for voltage (VOC) measurement.

SL102 - Features:

- Solar Irradiance measurement to 1999 W/m² or 634BTU/ft²*h
- Dual Display for simultaneous Irradiance and Voltage (VOC) measurement for in situ testing
- AC/DC Voltage to 600V
- AC/DC current to 200mA (Not to be used for ISC)

For Technical Specifications see page 4

DL6402 -Features:

- Audible Continuity
- Temperature thermocouple and K-Type adaptor supplied
- 1000 AC/DC Current reading
- AC/DC voltage up to 600V

For Technical Specifications see page 4

SL500

Expert Solar PV Test Kit



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 all packaged in a soft carry case.

The kit also includes an SLLSC4 - 4mm type 4 test lead for voltage (VOC) measurement.

SL102 - Features:

- Solar Irradiance measurement to 1999 W/m² or 634BTU/ft²*h
- Dual Display for simultaneous Irradiance and Voltage (VOC) measurement for in situ testing
- AC/DC Voltage to 600V
- AC/DC current to 200mA (Not to be used for ISC)

For Technical Specifications see page 4

DL6508 -Features:

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

For Technical Specifications see page 4



SL101 Compact Digital Irradiance Meter

Solar Irradiance Meter, designed to assist in the installation of Solar panel PV systems. With its compact hand held design, the SL101 enables you to perform safe and accurate measurements, even when working at heights.

Measurement	Range	Basic Accuracy
Irradiance	1 - 1999w/m ²	Typically within ±5% of rdg or ±10W/m ²
	1 - 634BTU/(ft ² *h)	Typically within ±5% of rdg or ±3 BTU/(ft ² *h)
Dimensions	162 x 63 x 28 mm	
Weight	Approx 250g	

Features:

- Sunlight measurement to 1999 w/m² or 634 BTU/ft²*h)
- Clear 1999 count display
- Auto Hold Function
- Min/Max Record function
- Carry Case



DL6506 Mini 80 Amp AC/DC Clamp Meter

A compact clamp meter for use where access to cables is a problem. This instrument fits neatly in the hand and with a clamp opening of 18 mm it is ideal for those instances where it is hard to reach cables.

A range of 1 mA to 80 A AC/DC means the small size does not compromise on range or accuracy.

The min resolution of 1 mA will enable detection of nuisance tripping of RCDs.

This clamp meter also features a non contact voltage indicator and a torch built in.

Features:

- AC/DC current 1 mA to 80A
- Non contact voltage indication
- 18 mm Jaw opening
- Data hold, max current capture
- Auto power off
- Backlit display

Measurement	Range	Basic Accuracy
AC Current	1mA - 80A	±3% ± 8 dgts
DC Current	1mA - 80A	±2.8% ± 8 dgts
Non Contact Voltage	100V 600V AC	
Power Supply	2 x 1.5V AAA	
Dimensions	160 x 60 x 28mm	
Weight	174g	



DL6402 1000 Amp AC/DC Digital Clamp Meter

The slim design combined with the tear shaped jaw makes it an ideal unit for use in crowded panels and tight spaces.

The data hold and peak capture function makes this a versatile and cost effective clamp meter.

Features:

- Audible Continuity
- Temperature thermocouple supplied
- 30 mm jaw opening
- 1000 AC/DC Current reading
- A large easy to see back lit display
- AC/DC voltage up to 600V

Measurement	Range	Basic Accuracy
AC Current	10mA - 1000A	3.0% ± 5 dgts
DC Current	10mA - 1000A	2.8% ± 5 dgts
AC Voltage	0.1mV - 600V	1.8% ± 3 dgts
DC Voltage	0.1mV - 600V	1.5% ± 3 dgts
Resistance	0.1Ω - 40MΩ	1.5% ± 2 dgts
Capacitance	40.00nF - 100.0uF	3.0% ± 5 dgts
Frequency	0.001Hz - 100.0kHz	1.2% ± 2 dgts
Temperature	-20°C - 1000°C	±3.0 % of rdg ± 5 dgts
	-4°F - 1832°F	±3.0 % of rdg ± 7 dgts
Diode Test	1.5V DC Typical	N/A
Power supply	1 x 9V battery PP3	
Dimensions	229 x 80 x 49 mm	
Weight	303g	



SL102 Advanced Digital Irradiance Meter with built-in DMM

A professional Solar Irradiance Meter designed to assist in the installation of Solar panel PV systems. With its multimeter like design, the SL102 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 of the panel connected in situ with the Type 4 lead set provided.

Features:

- Solar Irradiance measurement to 1999 W/m² or 634BTU/ft²*h
- Auto Hold
- Min/Max Record
- Carry Case
- Dual Display for simultaneous Irradiance and Voltage (VOC) measurement for in situ testing
- AC/DC Voltage to 600V
- AC/DC current to 200mA (Not to be used for ISC)
- Supplied with SLLSC4 - MC4 lead set

Measurement	Range	Basic Accuracy
Irradiance	1 - 1999w/m ²	Typically within ±5% of rdg or ±10W/m ²
	1 - 634BTU/(ft ² *h)	Typically within ±5% of rdg or ±3 BTU/(ft ² *h)
AC Voltage	0.001V - 600V	±1.0% of rdg + 5 dgts
DC Voltage	1mV - 600V	±1.0% of rdg + 3 dgts
AC Current	0.1µA - 200mA	±2.5% of rdg + 8 dgts
DC Voltage	0.1µA - 200mA	±2.0% of rdg + 3 dgts
Resistance	0.1Ω - 20MΩ	±1.2% of rdg + 3 dgts
Audible Continuity	←150Ω @ 0.36mA	
Diode Test	1mA max typical/Open MAX 3V DC	
Power Supply	1 x 9V PP3 & 2 x 1.5V AAA	
Dimensions	162 x 74.5 x 44mm	
Weight	Approx 308g	



DL6508 1500A AC/DC True RMS Clamp Meter

DL6508 is a True RMS 1500A/DC Clamp Meter which provides much safer measurements with a double moulded plastic housing design. True RMS AC/DC voltage and current measurements, 40,000 counts and 0.1% basic DC accuracy within the reach of more customers. The Large backlit LCD display with analogue barograph, ensures that readings are easy to read under all circumstances.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V

Features:

- DC Voltage to 1000V
- 1000V DC, TRMS 750V AC
- Min, Max, Peak & Hold function
- Inrush Current to 1500A
- Frequency to 40.000Hz
- Capacitance to 40.00mF
- Resistance to 40.000MΩ
- Temperature via K-type

Function	Max Range	Basic Accuracy
AC Current	1500A	±(2.8%+10d)
DC Current	1500A	±(2.0%+10d)
AC Voltage	750.0V	±(0.5%+5d)
DC Voltage	1000.0V	±(0.1%+5d)
Resistance	40.000MΩ	±(0.5%+4d)
Temperature	1000°C/1832°F	±(1.0%+1°C/1°F)
Capacitance	40.00mF	±(2.5%+5d)
Duty Cycle	10.0 to 95.0%	±(0.5%+2d)
Frequency	40.000MHz	±(1.2%+2d)
Inrush Current	1500A	±(1.5%+2d)
Continuity check	Buzzer sounds at 50Ω	
Diode Test	Test current 0.3mA	
Size(HxWxD)	295mm x 100mm x 46mm	
Weight	537g	

PU260 Proving Unit



A compact proving unit to enable compliance safety checking of voltage indicators for safe operation prior to testing on a live circuit.

Voltage output will depend on the loading of your voltage tester and will output up to 690V.

DLPK1 CombiVolt™ 1 Safe Isolation Kit

Voltage & Continuity Testers with Phase Rotation Test. The three-in-one testers with a rugged, ergonomically formed housing for perfect handling.



CombiVolt™ 1 Features:

- LED Display
- Carry Case

Features:

- Continuity testing with optical and acoustic indication
- Automatic switching between voltage and continuity
- Phase rotation test system
- Single pole phase indication
- Fully compliant with GS38

DLPK2 CombiVolt™ 2 Safe Isolation Kit



CombiVolt™ 2 Features:

- LCD Resolution 1 V ±3% + 8 Digits
- Carry Case

- Fully operational voltage indication even when batteries are discharged CombiVolt 2 with digital indication of voltage



DL7105 Infrared Thermometer

The DL7105 Infrared thermometer offers rapid and accurate temperature measurements.

This is the ideal tool for measuring surface temperature on Solar cells, panels and arrays, especially in those hard to reach areas.

The built in laser guiding system makes it a simple job to fix on the target object.

Features:

- 50 to 1 optical resolution, high distance to target ratio
- Wide temperature range from - 50 to 1000°C
- Automatic data hold
- Large backlit display
- Automatic power off

SL901 – 4 PV Reports & Certificates



For compliance to MCS and IEC62446

SL901 – PV Inspection

Report:

- 25 x PV System Inspection Reports with Carbon Copy Sheet

SL902 – PV Array Report:

- 25 x PV Array Report with Carbon Copy Sheet

SL903 – PV System

Verification:

- 25 x PV System Verification Certificate with Carbon Copy Sheet

SL904 – PV Test Report

& Verification Certificates:

- 1 each of the SL901-3

SLLSC3 Test Lead Set for MC3 & Type 3 Connectors



4mm Test Lead Set for MC3 & Type 3 Connectors (Red & Black)

- For Safe and accurate Voc & Vmax measurement

SLLSC4 Test Lead Set for MC4 & Type 4 Connectors



4mm Test Lead Set for MC4 & Type 4 Connectors (Red & Black)

- For Safe and accurate Voc & Vmax measurement

SL908 Type 4 MC4 Crimp Tool



The SL908 Solar Crimping Tool is an industrial quality tool for crimping Type 4 MC4 Male and Female Solar Contacts, to crimp 26-10AWG pins (2.5-6.0mm²).

- 1.2 metric tons pressure at crimping face, with minimal hand effort
- Interchangeable high-precision crimping die set
- Optional Type 3 MC3 Die Set – SL907



Tools Parameters:

- Capacity: 2.5-6.0mm²
- AWG: 26-10AWG
- Length: 270mm
- Weight: 0.74Kg

SL907 Type 3 MC3 Die

Type 3 MC3 Die Set for SL908



SL910 Type 3 MC3 Mounting/Assembly Tool

The Type 3 MC3 Assembly Tool is a high quality device that is used for inserting the crimped solar PV cable into the rubber housing necessary to fully insulate an MC3/Type 3 connection. This Solar Mounting Tool is suitable for assembling MC3/Type 3 connectors from 2.5mm² to 10mm² and can be used for both male and female connections. The MC3/Type 3 cable insert tool is essential for solar PV engineers working with MC3/Type 3 connections on solar installations.



Type 3 MC3 Assembly Tool Features:

- Easy and quick assembly of MC3/Type 3 solar cable connectors
- For use on plug insulation from 2.5 to 10mm²
- Three mandrels for pulling on the sleeves (2.5/4.0, 6.0 and 10mm²)
- Durable body made from fibreglass reinforced plastic
- Length: 325mm
- Weight: 460g

SL909 Type 3 MC3 & Type 4 MC4 Tool Kit

The Dilog Solar SL909 is a high precision crimping tool kit with a tough ratcheted mechanism for complete crimps; 1.2 metric tons pressure at crimping face, with minimal hand effort; Interchangeable high-precision crimping die set.

Tool kit includes:

- 1 PCS SL908 Type 4 MC4 Crimp Tool
- 1 PCS SL907 Type 3 MC3 Die
- 1 PCS Wire stripper with cutter
- 1 PCS SL906 Solar Spanner
- 1 PCS Allen Key
- 1 PCS Solar Crimp Guide
- 1 PCS A30J Die for Red/Blue/Yellow 0.5-6.0mm² Insulated Terminals
- 1 PCS Carry Case



Crimping Range	2.5-6.0mm ² (26-10AWG)
Cutting Range	30mm Max
Stripping Range	0.9-6.0mm ²
Application	for MC3/MC4 Solar Cables
Weight	1.5Kg

SL906 Solar Spanners



MC4/Type 4 Solar Spanners are designed for tightening MC4 connectors commonly found on PV systems. They significantly speed up the installation

process, and are an essential tool for any solar engineer's tool kit.

Features:

- 2 x MC4/Type 4 Solar Spanners
- Removal / disconnection prongs
- Open ended spanner
- High quality design

SL905 1000V Class 0 Insulated Electricians Gloves



Electrical insulating Gloves to EN60903. Insulating gloves up to 1000 working volts.

Features:

- Latex rubber electricians gauntlets
- 350mm length
- EN60903 classes 00 and 0
- Working voltages up to 1000 volts
- Sizes: M, L & XL

Please specify size on order.

SL911 Inclinometer with Compass



The SL911 combination Compass and Inclinometer tool is essential for accurate sight surveys for Solar PV systems. The SL911 allows the solar installer to be much more exact with line of sight for roof slopes and heights without the use of a ladder.

Features:

- Compass azimuth with reverse scale to prevent error when surveying
- Inclinometer in degrees and percentage for elevation of roof slopes and heights
- Protective carry case
- Adjustable eye pieces

Type 3 Connectors

SLC3M SLC3F SLC3P

Male

Female

Pair



Can be installed on any conventional solar module junction box, solar combiner box interconnection or added to solar modules with existing MC3/Type 3 connectors for extended distances. Greatly speeds up installation of solar array.

Rated Voltage:	1000V DC
Rated Current:	20A
Application Class:	Class A
Protection Class:	Class II
Insulation Material:	PPO, black
Protection degree:	IP65
Contact material:	Copper, tin plated
Operating Temperature:	-40°C TO +85°C
Wire size Range:	2.5,4mm ² [14,12AWG]
Standard:	DIN V VDE V 0126-5/05.08

Type 4 Connectors

SLC4M SLC4F SLC4P

Male

Female

Pair



Can be installed on any conventional solar module junction box, or solar combiner box interconnection or added to solar modules with existing MC4/Type 4 connectors for extended distances. Greatly speeds up installation of solar array.

Rated Voltage:	1000V DC
Rated Current:	20A
Application Class:	Class A
Protection Class:	Class II
Insulation Material:	PPO, black
Protection degree:	IP65
Contact material:	Copper, tin plated
Operating Temperature:	-40°C TO +85°C
Wire size Range:	2.5,4,6mm ² [14, 12, 10AWG]
Standard:	DIN V VDE V 0126-5/05.08

Type 3 T Connectors

SLTC3

Pair

Features:

- 1000 V DC, 20 A Class II
- Compatible with MC3 connectors
- IP65 rated
- DIN VDE 0126-5/05.8
- -40°C to 85°C



Type 4 T Connectors

SLTC4

Pair

Features:

- 1000 V DC, 20 A Class II
- Compatible with MC4 connectors
- IP65 rated
- DIN VDE 0126-5/05.8
- -40°C to 85°C



Di-LOG

...measurably greener

S O L A R



Di-LOG Group Companies:

Di-LOG
...measurably better

Test Equipment

www.dilog.co.uk Tel: 0161 877 0322



**Test Instrument
Repair & Calibration Services**

www.recal.biz Tel: 0161 877 3621

ESTS
ELECTRICAL SAFETY
TRAINING SERVICES

**Portable Appliance
Testing Courses**

www.estsonline.com Tel: 0161 872 7439

Di-LOG
...measurably greener

S O L A R

Solar PV Test Equipment

www.dilogsolar.com Tel: 0161 877 0322

Di-LOG Solar
28 Wheel Forge Way, Trafford Park
Manchester M17 1EH
Tel. 0161 877 0322
Fax. 0161 877 1614
Email. sales@dilogsolar.com
www.dilogsolar.com

Distributed by:

0800 018 9112
www.dilogsolar.com

Di-LOG
GROUP

Part of the
Di-LOG GROUP