Megger®

PVK350
Photovoltaic Kit

- DCM1500S AC/DC solar clamp meter
- PVM210 irradiance meter
- PVHV1 (4 mm) test leads
- PVHV2 (PV) test leads
- PV solar connectors to 4 mm test leads
- PV conversion adaptor test leads
- TP100 K-Type Thermocouple probe

DESCRIPTION

When installing, commissioning and testing a photovoltaic installation, additional instrumentation is required to accompany the usual electrician's test equipment.

The PVK350 photovoltaic kit offers the additional equipment in the form of the DCM1500S AC/DC solar clamp meter, PVM210 irradiance meter and a range of specialist PV test leads, supplied in a single protective hard carry case.

PVM210

The PVM210 is a pocket size instrument that has both solar detector and meter combined in one unit that permits single handed use, ideal for working at height and on sloping roofs.

The unit has a 3¾ digit display and a maximum range of 1999 W/m². A hold function allows easy measurements of solar power.

Measured result can be display results in W/m² or BTU (British Thermal Unit).

DCM1500S

The DCM1500S clamp meter offers measurements up to 2000 V DC and 1500 V AC on non-mains connected circuits (using the PVHV leads), as well as 1500 A AC or DC.

In addition to voltage and current measurement the DCM1500S has the ability to measure Resistance, Diodes, Capacitance, Temperature and Frequency.

The DCM1500S is ideal for use in the installation, monitoring and testing of photovoltaic systems as well as general electrical testing.

When used with the Megger Link App the measurement value can be remotely monitored on a smart device using built in Bluetooth®. This allows a live trending graph and the ability to sample and log values for later analysis.

The DCM1500S is safety rated to IEC 61010-1 and IEC/EN 61010-2-033 CAT IV 600 V, and CAT III 1000 V.

PV Test leads

The PVK350 kit includes the PVHV1 (4 mm connection) and PVHV2 (PV) lead sets for high voltage tests.

Additionally, a standard 4 mm to PV connector lead set is provided together with a PV connector adaptor lead set.

PVK350
Photovoltaic Kit

SPECIFICATIONS

PVM210

Display:	3¾ digit LCD
Ranges:	1999 W/m² / 634 BTU/(ft²*h)
Accuracy:	typically within ± 10 W/m2 / ±3 BTU/(ft²*h)
Resolution:	0.1 W/m² / 0.1 BTU/(ft²*h)
Dimensions:	(HxWxD) 134 mm x 48 mm x 27 mm
Weight:	90g (approx.)
Batteries:	2 x AAA, MN2400, LR03

DCM1500S

Display:	6000 counts
DC Voltage:	1000 V
AC Voltage:	1000 V
PV DC Voltage:	2000 V (using PVHV1 or PVHV2 lead sets)
PV AC Voltage:	1500 V using PVHV1 or PVHV2 lead sets)
DC mV:	600.0 mV
AC/DC µA:	4000 µA
AC/DC Current:	1500 A
Frequency:	10.000 kHz
Resistance:	600.0 kΩ
Continuity:	Buzzer sounds < 20 Ω Buzzer off > 200 Ω (Between 20 Ω to 200 Ω buzzer may be either on or off)
Diode:	1.500 V
Capacitance:	1000 µF

VoltSeek:	High Sensitivity / 80 V ~ 1000 V (At the top edge of the jaw)
	Low Sensitivity / 160 V ~ 1000 V (At the top edge of the jaw)
Temperature:	-40.0 °C – 400.0 °C -40.0 °F – 752.0 °F

For full information on individual instruments and electrical specifications please refer to the appropriate datasheets on each instrument.

PV test leads

PVHV1 (4 mm) leads:	2000 V DC/1500 V AC
PVHV2 (PV) leads:	2000 V DC/1500 V AC

Note: PVHV1 and PVHV2 leads are designed for use on circuits not directly connected to mains supply

1 pair 1.3 metre leads terminated with 4 mm plugs and PV solar connectors

1 pair 0.2 metre adapter leads terminated with PV conversion adaptor leads

Maximum current:	19 amps
Maximum voltage:	1000 V

ORDERING INFORMATION

Description	Part number
PVK350 Photovoltaic Kit	1014-805

Description	Part number
Included Accessories	
PVM210 Irradiance meter	1002-548
DCM1500S AC/DC clamp meter	1013-357
DCM 4 mm lead det (inc. probes and clips)	1013-358
PVHV1 leads (4 mm plugs)	1013-362
PVHV2 leads (PV plugs)	1013-363
PV test leads (2 sets)	1002-549
TP100 Thermocouple probe	1013-364
Batteries	
Hard carry case	

Megger.