The PV200 is a compact & cost effective I-V curve tracer that uses simple push button operation making it an efficient and versatile tester for PV systems. 999 datasets can be stored on the instrument and once downloaded to the SolarCert software comparison to the standard test conditions can be made.

The tester measures ground (earth) continuity, open circuit voltage, short circuit current, maximum power point voltage, current and power (with AC/DC clamp). The instrument will also give you the fill factor of the PV module or system under test.

The PV200 has a separate 1kV insulation resistance test function, eliminating the need for a separate, expensive device. Meanwhile the high contrast display on the device is clearly visible in direct sunlight.

The unit can also wirelessly capture and record real-time irradiance, ambient temperature and PV module temperature from the Solar Survey 200R. Using the Solar Survey 200R your data can be converted to standard test conditions, in SolarCerts, for you to compare to the manufacturer’s published data.

These are just a few of the reasons we believe you’ll want to invest in our PV200.
Key Features:
> All-in-one commissioning tests and I-V curve tracing.
> Automatic fill factor calculation.
> Ground (earth) continuity measurement with test lead null.
> PV string open circuit and maximum power point voltage measurements up to 1000V DC.
> PV string short current up to 15ADC.
> PV array insulation test at 250/500/1000V.
> Tests individual PV modules or strings.
> Memory for up to 999 records with USB download to PC.
> Instant NFC data transfer using the PVMobile app.
> High contrast display, visible in bright light.

Complete Kit includes:
> Seaward Installation PV200 instrument.
> 2 x MC4 test lead adaptors.
> 2 x Combiner box test probes and detachable alligator clips (MC4).
> 2 x Test leads, with test probes and detachable alligator clips (4mm).
> AC/DC current clamp.
> Solar Survey 200R irradiance meter and temperature probe.
> Solar Survey 200R mounting bracket.
> Rugged carry bag.
> Quick Start Guide.
> UKAS Calibration Certificate (PV200).
> 2 year warranty.
> SolarCert PC software.

Optional Accessories:
> Solar Power Clamp.
> MC4 fused / unfused test leads.

To see the **PV200** for yourself, request your live online demonstration today at [seawardsolar.com/PV200](http://seawardsolar.com/PV200)

T: +44 (0) 191 587 8741  E: sales@seaward.com

TESTED, TRUSTED... WORLDWIDE.
**PV200**
The most compact I-V curve tracer around.

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**Technical Specification:**

**Open Circuit Voltage Measurement (PV Terminals)**
- **Display Range:** 0.0VDC - 1000VDC
- **Measuring Range:** 5.0VDC - 1000VDC
- **Resolution:** 0.1VDC maximum
- **Accuracy:** ± (0.5 % + 2 digits)
- **Enunciators:** DC voltage polarity correct or reversed

**Short Circuit Current Measurement (PV Terminals)**
- **Display Range:** 0.00ADC - 15.00ADC
- **Measuring Range:** 0.50ADC - 15.00ADC
- **Maximum Power:** 10kW
- **Resolution:** 0.01ADC maximum
- **Accuracy:** ± (1% + 2 digits)

**Earth Continuity Resistance Measurement (4mm Terminals)**
- **Test Voltage Open Circuit:** >4VDC, nominal
- **Test Current into 2 Ω:** >200mA
- **Display Range:** 0.00Ω - 199Ω
- **Measuring Range (EN 61557-4):** 0.05Ω - 199Ω
- **Resolution:** 0.01Ω maximum
- **Accuracy:** ± (2% + 5 digits)
- **Test Leads Zero:** Zero up to 10Ω, by zero button
- **Visible Warning:** ≥30V AC or DC at inputs
- **Circuitry Protection:** Test inhibited if ≥30V AC or DC at inputs
- **Repeat tests as per IEC61557-4:** Approx 4000 1 second test

**Insulation Resistance (Auto Test Sequence, PV Terminals and Red 4mm Terminal)**
- **Test Voltage Open Circuit:** 250V, 500V, 1000V (as per IEC61557-2)
- **Test Voltage Specification:** -0% +20% (open circuit)
- **Test Voltage @ 1mA:** >1mA into U_n x (1000Ω/V)
- **Test Current Short Circuit:** <2mA
- **Display Range:** 0.05MΩ - 200MΩ

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**Insulation Resistance (Auto Test Sequence, PV Terminals and Red 4mm Terminal Continued...)**

<table>
<thead>
<tr>
<th>Measuring Range (EN 61557-2)</th>
<th>0.05MΩ - 200MΩ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>0.01MΩ maximum</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.05MΩ - 100MΩ ± (5% + 5 digits)</td>
</tr>
<tr>
<td></td>
<td>101MΩ - 200MΩ ± (10% + 5 digits)</td>
</tr>
<tr>
<td>Visible Warning</td>
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</tr>
<tr>
<td>Repeat tests as per IEC61557-4</td>
<td>Approx 4000 1 second tests</td>
</tr>
</tbody>
</table>

**Insulation Resistance (Point to Point, 4mm Terminals)**

| Test Voltage Open Circuit     | 250V, 500V, 1000V (as per IEC61557-2) |
| Test Voltage Specification    | -0% +20% (open circuit)               |
| Test Voltage @ 1mA            | >1mA into Uₚₓ (1000Ω/V)               |
| Test Current Short Circuit    | <2mA                                    |
| Display Range                 | 0.05MΩ - 300MΩ                        |
| Measuring Range (EN 61557-2)  | 0.05MΩ - 300MΩ                        |
| Resolution                    | 0.01MΩ maximum                        |
| Accuracy                      | ± (5% + 5 digits)                     |
| Visible Warning               | ≥30V AC or DC at inputs               |
| Circuitry Protection          | Test inhibited if ≥ 30V AC or DC at inputs |
| Repeat tests as per IEC61557-4| Approx 4000 1 second tests            |

**Voltage Measurement (4mm Terminals)**

| Display Range                 | 30V - 440VAC/DC                      |
| Voltage Measuring Range       | 30V - 440VDC                        |
|                               | 30V - 440VAC 50-60Hz                |
| Resolution                    | 1V                                    |
| Accuracy                      | ± (5% + 2 digits)                    |

**Operating Current (via AC/DC Current Clamp)**

| Display Range                 | 0.1A - 40.0A                         |
| Current Measuring Range       | 0.1A - 40.0A DC                      |
|                               | 0.1A - 40.0A AC 50-60Hz              |
PV200
The most compact I-V curve tracer around.

Operating Current (via AC/DC Current Clamp)
Continued...
Resolution 0.1A
Accuracy ± (5% + 2 digits)

DC Operating Power (via AC/DC Current Clamp and PV Terminals)
Display Range 0.00kW - 40kW
Measuring Range 0.50kW - 40kW
Resolution 0.01kW
Accuracy ± (5% + 5 digits)

General Specification:
Instrument Dimensions and Weight
Weight 1.04kg / 2.3lb
Dimensions 26.4 x 10.7 x 5.8cm / 10.4 x 4.2 x 2.3"
Display Custom LCD with backlight
Power Source 6 x 1.5V AA cells
Battery life >1000 test sequences
Auto power down User programmable
Onboard memory Up to 999 complete test datasets

Connectivity
USB download to PC (CSV format)
Wireless “Solarlink TM” to Survey 200R (range ~30m/100ft)
NFC transfer of data to PVMobile Android App
iOS device not supported

App compatibility
Compatible with Android version 4.2 Jelly Bean
iOS devices not supported

Software compatibility
Compatible with SolarCert software (English language only)

Service
2 year warranty (subject to terms and conditions, available at www.seawardsolar.com/warranty)

Part Numbers:
PV200 Complete Kit (including instrument, Solar Survey 200R and SolarCert software):
PV200 instrument, 2 x MC4 test lead adaptors, 2 x Combiner box test probes and detachable alligator clips (MC4), 2 x test leads with test probes and detachable alligator clips (4mm), AC/DC current clamp, Solar Survey 200R irradiance meter and temperature probe, Solar Survey 200R mounting bracket, rugged carry bag, quick start guides, UKAS Calibration Certificate (PV200), 2 year warranty, SolarCert PC software.

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