# **PV200**

The most compact I-V curve tracer around.



### **Technical Specification:**

### **Open Circuit Voltage Measurement (PV Terminals)**

Display Range 0.0 VDC - 1000 VDCMeasuring Range 5.0 VDC - 1000 VDCResolution 0.1 VDC maximum

Accuracy  $\pm (0.5 \% + 2 \text{ digits})$ 

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  $\pm$  (1% + 2 digits)

### **Earth Continuity Resistance Measurement (4mm Terminals)**

Test Voltage Open Circuit >4VDC, nominal

Test Current into 2  $\Omega$  >200mA

Display Range  $0.00\Omega$  - 199 $\Omega$ Measuring Range (EN 61557-4)  $0.05\Omega$  - 199 $\Omega$ Resolution  $0.01\Omega$  maximum

Accuracy  $\pm (2\% + 5 \text{ digits})$ 

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 test

### Insulation Resistance (Auto Test Sequence, PV Terminals and Red 4mm Terminal)

Test Voltage Open Circuit 250V, 500V, 1000V (as per IEC61557-2)

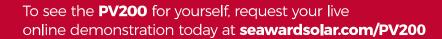
Test Voltage Specification -0% +20% (open circuit) Test Voltage @ 1 mA >1 mA into  $U_N$  x  $(1000\Omega/V)$ 

Test Current Short Circuit <2mA

Display Range  $0.05 \text{M}\Omega$  -  $200 \text{M}\Omega$ 









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

Measuring Range (EN 61557-2) 0.05M $\Omega$  - 200M $\Omega$  Resolution 0.01M $\Omega$  maximum

Accuracy  $0.05M\Omega - 100M\Omega \pm (5\% + 5 \text{ digits})$ 

 $101M\Omega$  -  $200M\Omega$  ± (10% + 5 digits)

Visible Warning  $\geq$  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

### 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 @ 1 mA >1 mA into  $U_N$  x  $(1000\Omega/V)$ 

Test Current Short Circuit <2mA

Display Range  $0.05 \text{M}\Omega$  -  $300 \text{M}\Omega$  Measuring Range (EN 61557-2)  $0.05 \text{M}\Omega$  -  $300 \text{M}\Omega$  Resolution  $0.01 \text{M}\Omega$  maximum Accuracy  $\pm (5\% + 5 \text{ digits})$ 

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

### **Rpe Voltage Measurement (4mm Terminals)**

Display Range 30V - 440VAC/DC
Voltage Measuring Range 30V - 440VDC

30V - 440VAC 50-60Hz

Resolution 11

Accuracy  $\pm$  (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

To see the **PV200** for yourself, request your live online demonstration today at **seawardsolar.com/PV200** 







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

Continued...

Resolution 0.1A

Accuracy  $\pm$  (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  $\pm$  (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

7 dato power down

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)

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### **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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