

PV:1525 Series

Handheld 1500V 25A PV Test Instrument



The PV:1525 Series is designed for installers and O&M engineers to allow electrical safety testing and performance measures in PV systems up to 1500VDC and 25A, ideal for residential and commercial level installations.

Both instruments in the range perform Ground Continuity, Insulation Resistance, Open Circuit Voltage, Short Circuit Current, and the flagship PV:1525-IV adds IV Curve Tracing too!

With a new innovative user interface, the PV:1525 series retains the ease of use from the previous generation while adding additional features fit for a modern test instrument. Results can be tagged with information relating to the installation for ease of data management.

With Bluetooth capabilities, test results can be easily transferred to a mobile app for review and further sync with software, ensuring your device is always up to date with the latest features.

Key Measurement Features:

- > PV String Open Circuit Voltage Measurement up to 1500V DC
- > PV String short circuit Current up to 25A DC
- > Insulation Resistance voltage up to 1500V DC

Part Numbers:

- > PV:1525 Kit (601A910)
- > PV:1525-IV Kit (601A915)

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Key Features:

- > Bluetooth data transfer to new PV Mobile App
- > Wireless Updates – Firmware changes can be applied to the device via the App
- > Intuitive Colour Display
- > Illuminated Function Buttons allow for guided navigation and testing
- > Internal Memory for results storage
- > Manual Mode for Diagnostic testing
- > On-Screen display of IV Curve (PV:1525-IV)

What's in the box?:

- > 1x PV:1525 or PV:1525-IV instrument
- > 1x Carry Case
- > 1 x Set 4mm Test Probes – Red, Black and Yellow (With detachable Clips)
- > 1x Set Instrument to MC4 Test Leads - Yellow and Black
- > 1 x LiPo Battery Pack
- > 1 x Battery Charger
- > 1 x Printed QSG
- > 1x SS200LR Irradiance Meter
- > 1 x PV:1500 Clamp (Wireless Clamp Meter)
- > 1x Solar Panel Clamp
- > 1x Solar Certs

Technical Specification:

Open Circuit Voltage Measurement (PV Terminals)

Display Range	0.0VDC - 1500VDC
Measuring Range	5.0VDC - 1500VDC
Resolution	0.1VDC maximum

Short Circuit Current Measurement (PV Terminals)

Display Range	0.00ADC - 25.00ADC
Measuring Range	0.50ADC - 25.00ADC
Maximum Power	37.5kW
Resolution	0.01 ADC maximum

IV Curve Measurement (PV:1525-IV Only)

Number of Test Points	Dynamic
Max Power	Depending upon Irradiance and Panel Technology

Earth Continuity / Resistance Measurement (4mm Terminals)

Test Voltage Open Circuit	>4VDC, nominal
Test Current into 2Ω	>200mA
Display Range	0.00Ω - 199Ω
Measuring Range (EN 61557-4)	0.05Ω - 199Ω
Resolution	0.01Ω maximum
Test Leads Zero	Zero up to 10Ω
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

Insulation Resistance Measurement (4mm Terminals)

Test Voltage Open Circuit	250, 500, 1000, 1500V (as per IEC61557-2)
Test Current Short Circuit	2mA
Display Range	0.05MΩ - 300MΩ
Measuring Range (EN61557-2)	0.05MΩ - 300MΩ
Resolution	0.01MΩ Maximum
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	1V

Operating Current (Wireless via PV:1500 Clamp)

Display Range	0.1A - 40.0A
Current Measuring Range	0.1A - 40.0A DC
	0.1A - 40.0A AC 50-60Hz

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Technical Specification (Continued):

Operating Power (PV Terminals & wireless using PV:1500 Clamp)

Display Range	0.00kW - 40kW
Measuring Range	0.50kW - 40kW
Resolution	0.01kW

General Specification

Weight	1kg / 2.2lb
Dimensions	265 x 115 x 78 mm 10.4 x 4.6 x 3.1 in
Display	3.5in Colour display with Backlight
Power Source	11.55V 2930mAH LiPo Battery
Auto Power Down	User Configurable
Onboard Memory	1000 Slots

Rev 1

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