



## **PROVA 200A-24**

### **PV Analyzer (24V, 600mA)**

**CE CAT I 60V**

#### **Features:**

- **I-V curve** test for solar **cell/panel**
- Max. solar panel power (Pmax) search by auto-scan: **24V, 600mA**
- Best resolution: **1mV, 10µA**
- **Manual single point** I-V test
- Max. voltage (Vmaxp) at Pmax
- Max. current (Imaxp) at Pmax
- Voltage at open circuit (Vopen)
- Current at short circuit (Ishort)
- I-V curve with cursor to display each data point
- **Efficiency (%)** calculation of solar panel
- Solar panel **area** setting: 0.001 m<sup>2</sup> ~ 9999 m<sup>2</sup>
- Standard **light source** setting: 10 W/m<sup>2</sup> ~ 1000 W/m<sup>2</sup>
- Communicate with PC via **USB cable**
- Min. power setting for **alarm** function
- Built-in calendar clock
- Built-in battery charging circuit
- AC power adapter
- Rechargeable **lithium battery**: 11.1V 1600mAh x 1pc.
- Memory size: **100 records**
- Large LCD with **backlight**
- **Application:**
  1. Quality control in the production line, warehouse, or site of installation.
  2. Identify the solar power system requirement.
  3. Maintenance of solar panels.
  4. Verify the best installation angle of solar panels

## Electrical Specifications:

(23°C ±5°C, four-wire measurement)

### DC Voltage Measurement:

Range (24V / 600mA)	Resolution	Accuracy of Reading
0 ~ 10 V	0.001 V	±1% ± (1% of Vopen ± 9mV)
10 ~ 24 V	0.01 V	±1% ± (1% of Vopen ± 0.09V)

**Vopen:** open circuit voltage of solar cell or module.

### DC Current Measurement:

Range (24V / 600mA)	Resolution	Accuracy of Reading
1 ~ 100 mA	0.01 mA	±1% ± (1% of Ishort ± 0.09mA)
100 ~ 600 mA	0.1 mA	±1% ± (1% of Ishort ± 0.9mA)

**Ishort:** short circuit current of solar cell or module.

**Internal Resistance at Ishort:** 0.05 Ohm.

### DC Current Simulation\*

Range (24V / 600mA)	Resolution	Accuracy of Reading
1 ~ 100 mA	0.01 mA	±1% ± 0.09mA
100 ~ 600 mA	0.1 mA	±1% ± 0.9mA

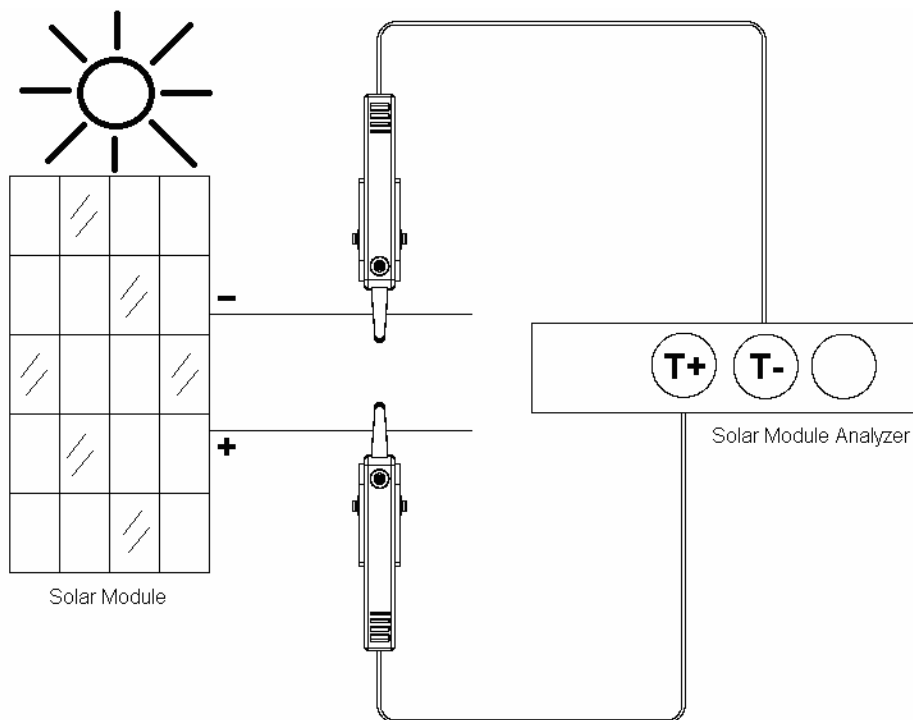
\* If current is greater than **600mA**, test (Auto-Scan, Scan, or Test) can not be performed.

## General Specifications:

Battery Type:	Rechargeable Lithium Battery (1600mAh)
AC Power Adapter:	AC 100V~240V input DC 15V / 1~3A output
Data Logging Memory Size:	100 records
Dimension:	257 (L) x 155 (W) x 57 (H) mm 10.1" (L) x 6.1" (W) x 2.2" (H)
Weight:	1160g / 40.0oz (Batteries included)
Operation Environment:	5°C ~ 50°C 85% RH
Temperature Coefficient:	0.1% of full scale / °C ( < 18°C or > 28°C )

Storage Environment:	-20°C ~ 60°C 75% RH
Accessories:	User manual x 1 AC power adapter x 1 Rechargeable lithium battery x 1 Optical USB cable x 1 Software CD x 1 Software manual x 1 Carrying bag x 1 Kelvin clips (2 clips, 6A max) x 1 set 4-wire to 2-wire connector x 1 set

## Kelvin Clip Connecting Diagram



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