

# PROVA<sup>®</sup>

## PROVA 210

### Solar Module Analyzer (Photovoltaic I-V Curve Tester)

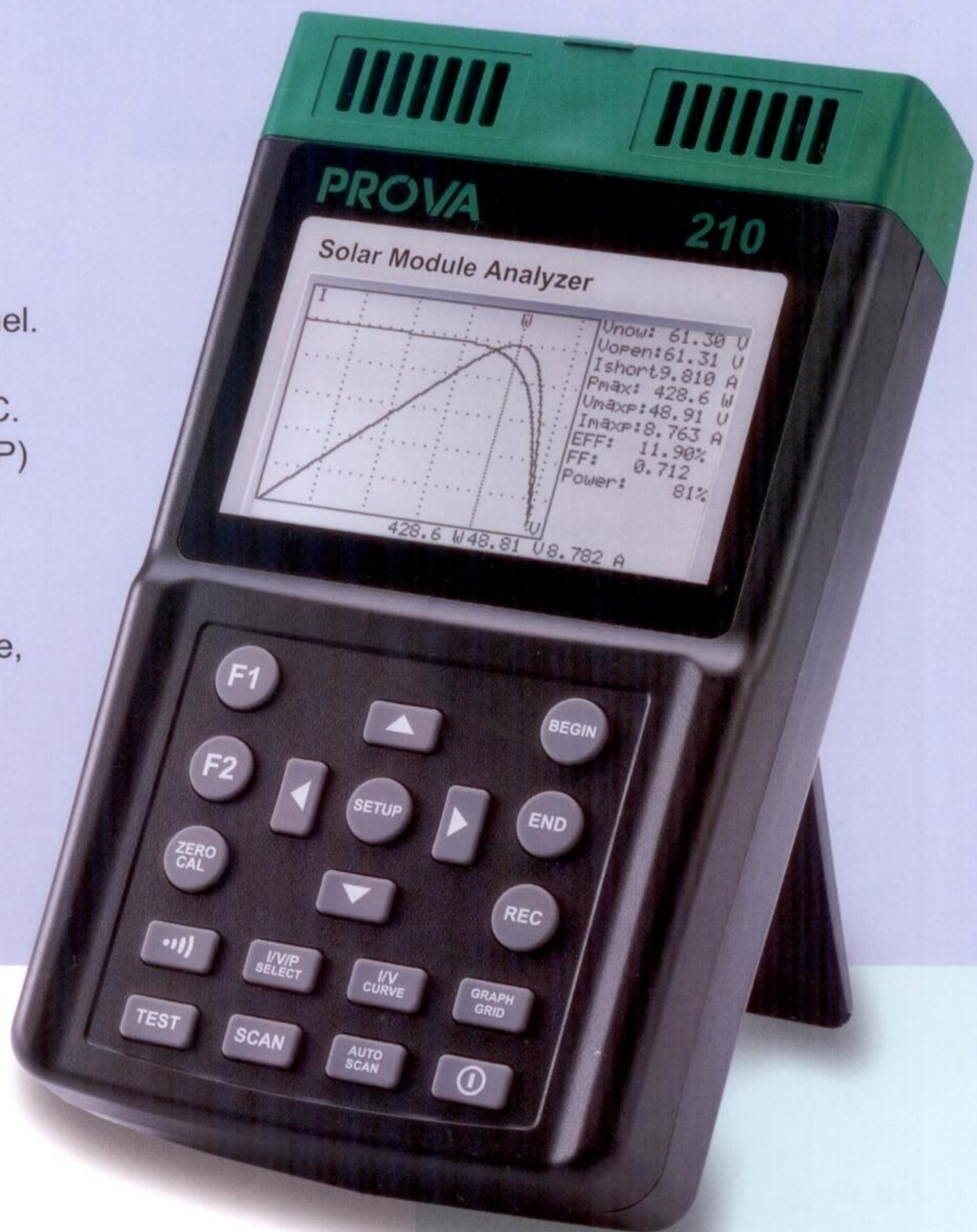
#### Features

- I-V Curve Test for Solar Cell.
- Max. Solar cell/module Power (Pmax) search by auto-scan: 60V, 12A.
- Best Resolution: 1mV, 1mA.
- 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.
- Efficiency (%) calculation of solar panel.
- Real time data logging.
- RS232C (to USB Bridge) cable for PC.
- Optional printer (model: 300XP/310XP) to hardcopy I-V curve.

#### Application Notes

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.

*Quality Control, Identification, Maintenance, and Verification!*



<http://www.prova.com.tw>

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CAT I 60V



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### Solar Module Analyzer (Photovoltaic I-V Curve Tester)

#### Electrical Specifications (23°C ± 5°C, Four-wire Measurement)

##### DC Voltage Measurement :

Range	Resolution	Accuracy
0 – 10V	0.001V	± 1 % ± (1 % of Vopen ± 0.1 V)
10 – 60V	0.01V	± 1 % ± (1 % of Vopen ± 0.1 V)

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

##### DC Current Measurement :

Range	Resolution	Accuracy
0.01 – 10 A	1 mA	± 1 % ± (1 % of Ishort ± 9 mA)
10 – 12 A	10 mA	± 1 % ± (1 % of Ishort ± 0.09A)

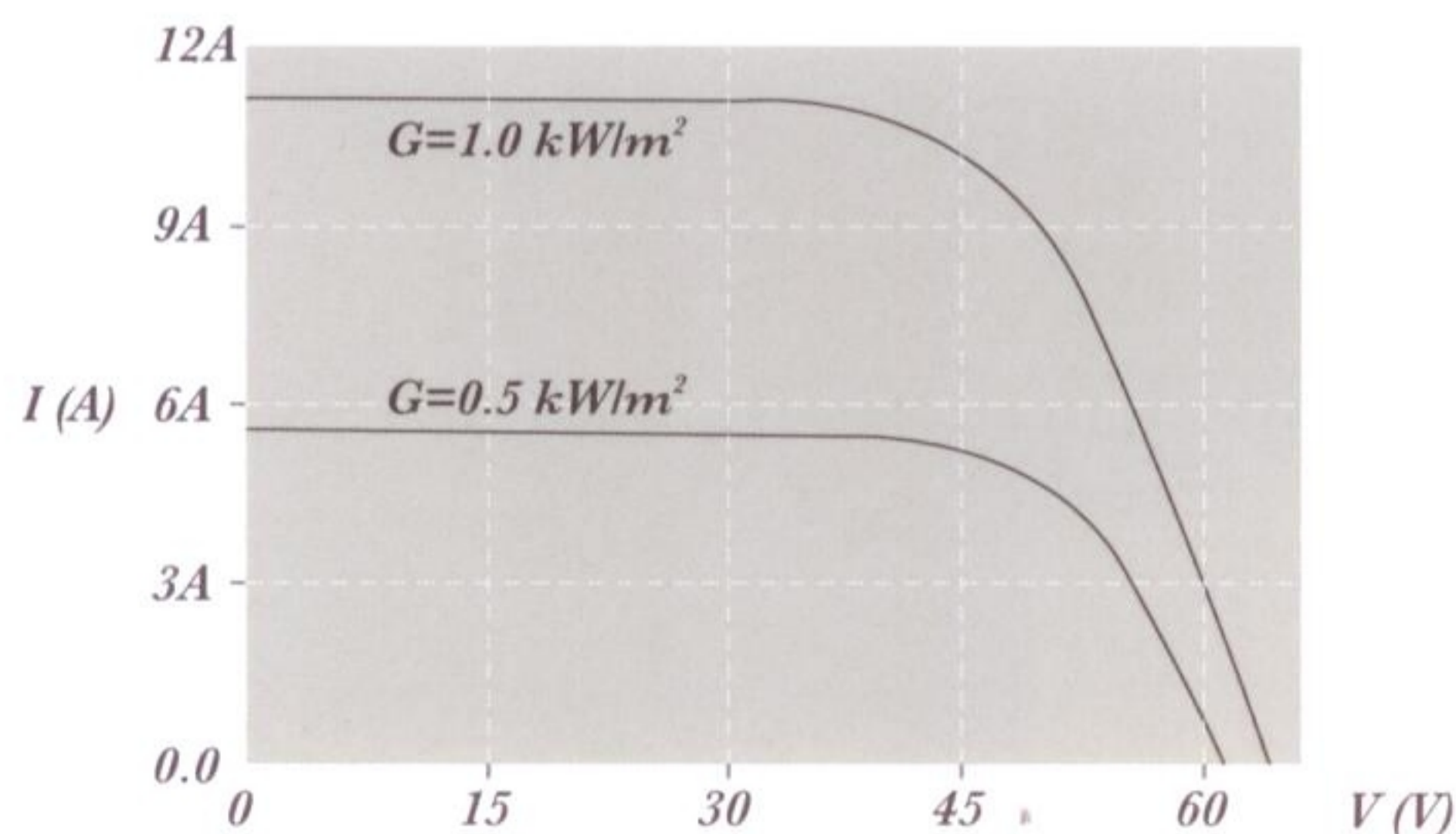
**Ishort** : short circuit current of solar cell or module.

##### DC Current Simulation :

Range	Resolution	Accuracy
0.01 – 10 A	1 mA	± 1 % ± 9 mA
10 – 12 A	10 mA	± 1 % ± 0.09A

#### General Specifications

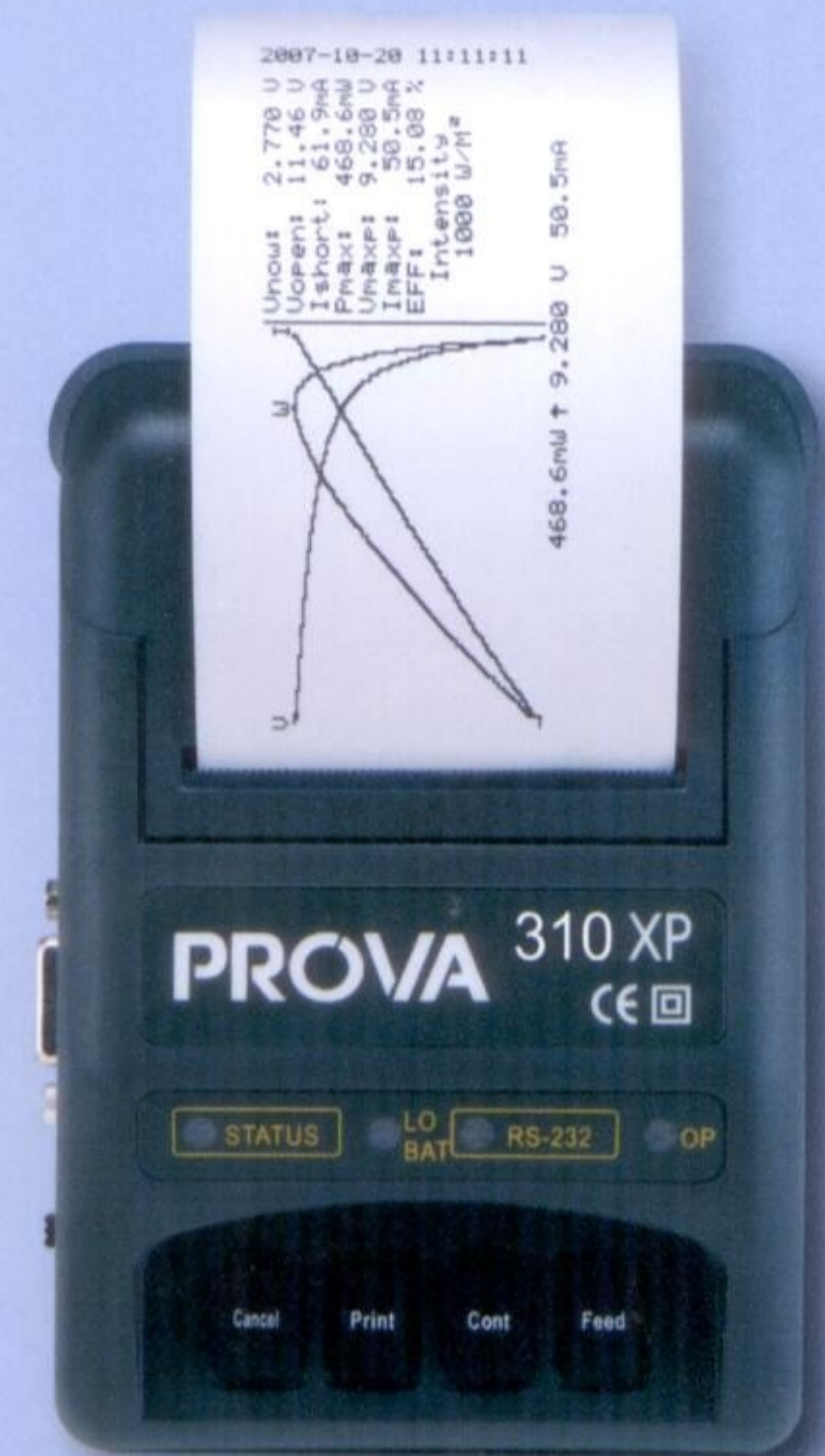
<b>AC Adaptor</b>	AC 110V or 220V input, DC 15V / 3A output
<b>Dimension</b>	257(L) x 155(W) x 57(H) mm 10.1" (L) x 6.1" (W) x 2.2" (H)
<b>Weight</b>	1160g / 40.9oz (Batteries included)
<b>Operation Environment</b>	0°C ~ 50°C, 85% RH
<b>Storage Environment</b>	-20°C ~ 60°C, 75% RH
<b>Accessories</b>	User Manual x 1, Software Manual x 1 Lithium battery 11.1V (Rechargeable) x 1 RS232C (to USB Bridge) Cable x 1 Software CD x 1, AC adaptor x 1, Kelvin Clips (2 clips, banana plugs) x 1 set (10A max, 12A for 1 minute)



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Kelvin Clips



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