



PROVA 200 Solar Module Analyzer

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

(1) PROVA 200

DC Voltage Measurement:

Range	Resolution	Accuracy of Reading
0 ~ 6 V	0.001 V	±1% ± (1% of Vopen ± 9mV)
6 ~ 10 V	0.001 V	±1% ± (1% of Vopen ± 0.09V)
10 ~ 60 V	0.01 V	±1% ± (1% of Vopen ± 0.09V)

Vopen: open circuit voltage of solar cell or module.

DC Current Measurement:

Range	Resolution	Accuracy of Reading
0.01 ~ 0.6 A	0.1 mA	±1% ± (1% of Ishort ± 0.9mA)
0.6 ~ 1 A	0.1 mA	±1% ± (1% of Ishort ± 9mA)
1 ~ 6 A	1 mA	±1% ± (1% of Ishort ± 9mA)

Ishort: short circuit current of solar cell or module.

Internal Resistance at Ishort: 0.05 Ohm.

DC Current Simulation*

Range	Resolution	Accuracy of Reading
0.01 ~ 1 A	0.1 mA	±1% ± 0.9mA
1 ~ 6 A	1 mA	±1% ± 9mA

* Max. duration of simulation is 9.999 seconds if power is less than 100W.

* Duration of simulation is 10m seconds if power is greater than 100W.

(2) PROVA 200-24

DC Voltage Measurement:

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

Vopen: open circuit voltage of solar cell or module.

DC Current Measurement:

Range	Resolution	Accuracy of Reading
0 ~ 60 mA	0.01 mA	±1% ± (1% of Ishort ± 90 μA)
60 ~ 100 mA	0.01 mA	±1% ± (1% of Ishort ± 0.9mA)
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: 0.5 Ohm.

DC Current Simulation:

Range	Resolution	Accuracy of Reading
0 ~ 60 mA	0.01 mA	$\pm 1\% \pm 90 \mu A$
60 ~ 100 mA	0.01 mA	$\pm 1\% \pm 0.9mA$
100 ~ 600 mA	0.1 mA	$\pm 1\% \pm 0.9mA$

General Specifications:

Battery Type:	1.2V AA rechargeable battery x 8 (2500mAh)
AC Adaptor:	AC 110V or 220V input DC 12V / 1~3A output
Dimension:	257(L) x 155(W) x 57(H) mm 10.1" (L) x 6.1" (W) x 2.2" (H)
Weight:	1160g / 40.9oz (Batteries included)
Operation Environment:	0°C ~ 50°C 85% RH
Storage Environment:	-20°C ~ 60°C 75% RH
Accessories:	User Manual x 1 Rechargeable batteries x 8 AC adaptor x 1 RS232C (to USB Bridge) Cable x 1 Software CD x 1 Software Manual x 1 Kelvin Clips (2 clips, 6A max) x 1 set

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