



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

1. I-V curve test for solar panel/module
2. Max. solar panel power (Pmax) search by auto-scan:
MODEL: SMA207 60V, 6A
MODEL: SMA306 60V, 12A
3. Best resolution: 1mV, 0.1mA
4. Manual single point I-V test
5. Max. voltage (Vmaxp) at Pmax
6. Max. current (Imaxp) at Pmax
7. Voltage at open circuit (Vopen)
8. Current at short circuit (Ishort)
9. I-V curve with cursor to display each data point
10. Efficiency (%) calculation of solar panel
11. Solar panel area setting: 0.001 m² ~ 9999 m²
12. Standard light source setting: 10 W/m² ~ 1000 W/m²

1. Communicate with PC via USB cable
2. Min. power setting for alarm function
3. Built-in calendar clock
4. Built-in battery charging circuit
5. AC power adapter
6. Rechargeable lithium battery: 11.1V 1600mAh x 1pc
7. Memory size: 100 records
8. Large LCD with backlight

STEK Solar Panel (Photo Voltage PV Module Analyser) Model: PVM 207/306

Electrical Specifications:

DC Voltage Measurement

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

Voc: open circuit voltage of solar cell or module

DC Current Measurement

Range	Resolution	Accuracy
0.01 ~ 0.6 A (PVM 207)	0.1 mA	±1% ± (1% of Ishort ± 0.9mA)
0.6 ~ 1 A (PVM 207)	0.6 ~ 1 A 0.1 mA	
1 ~ 6 A (PVM 207)	1 ~ 6 A	± (1% of Ishort ± 9mA)
0.01 ~ 10 A (PVM 306)	1 mA	
10 ~ 12 A (PVM 306)	10 mA ±1%	

Isc: short circuit current of solar cell or module.

DC Current Simulation (Source)

Range	Resolution	Accuracy
0.01 ~ 1 A (PVM 207)	0.1 mA	±1% ± 0.9mA
1 ~ 6 A (PVM 207)	1 mA	±1% ± 9mA
0.01 ~ 10 A (PVM 306)	1 mA	±1% ± 9mA
10 ~ 12 A (PVM 306)	10 mA	±1% ± 0.09A

General Specifications:

- Battery Type : Rechargeable Lithium Battery (3400mAh)
- Battery Life : 400 times of linear scan (1000V ~ 1V, 0.1A ~ 12A), 8 hours for standby mode
- Memory Size : 100 Readings
- AC Power Adaptor : AC 100 ~ 240V input DC 15V / 1~3A output
- Dimension : 257(L) x 155(W) x 57(H) mm
- Weight : 1525g / 53.7 oz (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 adaptor x 1, Optical USB cable x 1, Rechargeable lithium battery (3400mAh)x 1, Software CD ,x 1, Software manual x 1, Carrying bag x 1, Kelvin clips, (12A max) x 1 set, 4-Wire to 2-Wire connector x 1 set

