

Sample Acknowledgement

Customer Name	
Product Name	Solar panel KSEM-270X108mm
Product Number	
Use environment	outdoor
Date	2025-8-15
	The purpose of establishing this standard is to provide both manufacturers and users with A clear standard, and acceptance procedures according to this standard; Some contents not included in the standard can be supplemented after mutual agreement. Add corrections.

				confirm	
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sign: _____

date: _____

Note: After you review and approve the Sample Acknowledgement and sign in the "Customer Acknowledgement" column, our company
It is deemed that your company accepts all the contents of this "Sample Acknowledgement Letter".

1. Scope of use

Solar lamps, power supplies, power generation systems and other solar application products.

2. Performance test conditions and methods:

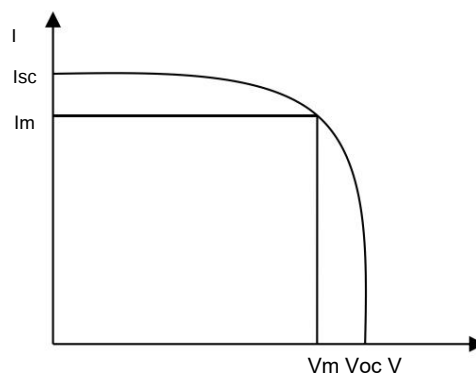
- ① Standard test conditions: AM1.5, $E=1000\text{W/m}^2$, $T=25^\circ\text{C}$
- ② Test method: Using solar simulation test equipment, test voltage and current at a light intensity of 38,000.

3. Performance specifications

Name	Parameters	Remark
Packaging	Frosted PET Laminated Frosted	Apply black tape
Material	PET+EVA	
battery cells	single crystal silicon	
Voltage	6V	
Current	1.5A	Error $\pm 5\text{MA}$
base material	PCB	
Base plate shape/size	270X108mm	Error $\pm 0.1\text{mm}$
Base plate thickness	1.0=mm	Error $\pm 0.20\text{mm}$
Component thickness	2.2mm	Error $\pm 0.20\text{mm}$
Working environment conditions	Temperature range $-10\text{--}+70^\circ\text{C}$ humidity 45—95%RH	

4. Appearance requirements

- A. The battery cell requires single crystal silicon wafers
- B. The film arrangement must be neat;
- C. The surface of the finished product must be smooth, without scratches, bumps, deformation, dirt, delamination, whitening, broken lines, bubbles, gaps, etc. Good; slight color difference is allowed
- D. The soldering ribbon cannot be too long to connect the positive and negative poles of the S+/S- pads together
5. The schematic diagram of the I-V curve of the solar cell module is as follows:



In the figure: I_{sc} is the output current when the load is 0, that is, the short-circuit current, and the output power is 0 at this time.

V_{oc} is the output voltage when the load is open, also known as the open-circuit voltage. At this point, the output power is zero.

As the load on a solar cell module changes, the operating point and output power also change. At a certain point, the output power reaches its maximum. The output voltage and current at this point are the maximum operating voltage (V_m) and maximum operating current (I_m). Different solar cell materials may have slight variations.

6. Storage Conditions: Store at room temperature.

Please conduct QC testing according to the above standards. If any quality issues arise within the test period, please notify us in writing.

Test Report

Model	Solar panel KSEM-270X108mm
Dimension	270*108
Photoelectric conversion efficiency	19.8%
Maximum power	9W
Operating voltage voltage	6V
Open-circuit voltage	6.2V
Short-circuit current	1.5A

Note:

1. The test size parameter error is $\pm 0.1\text{mm}$
2. The voltage parameter error of the electrical indicator is 2V.
3. The current parameter error of the electrical indicator is $\pm 5\text{mA}$.

Final Review		Verification		confirm		Tester	
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