

# Shanghai Chaori Solar Energy Science&Technology Co. Ltd



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## Limited Warranty for PV Modules

### 1. Limited Product Warranty – Ten Years Replacement or Refund Remedy

Shanghai Chaori Solar Energy Science&Technology Co. Ltd (CHAORISOLAR) which was registered in No.738 Qigang Road, Yangwang Economic Area, Nanqiao, Fengxian District, Shanghai, China shall warranty its PV Modules (MODULES)'s performance. Under the condition of normal application, installation and use, there won't be defects in material selection and technology. If MODULES fail to conform to this warranty, during the period of 120 months from the date of sale (SALES DATE) to the first customer, CHAORISOLAR will, at its option, replace the product, or refund the purchase price of the MODULES. The replacement or refund remedy shall be the sole and exclusive remedy provided under the "Limited Product Warranty" and shall not extend beyond the period set forth herein. This "Limited Product Warranty" does not warrant a specific power output, which shall be exclusively covered under clause 3 hereinafter ("Limited Peak Power Warranty").

### 2. CHAORISOLAR PV Module Limited Warranty covers the following listed standard PV module types:

CRM\*\*\*S125M-96(\*\*\*=240W-265W)

CRM\*\*\*S125M-80(\*\*\*=200W-215W)

CRM\*\*\*S125M-72(\*\*\*=180W-200W)

CRM\*\*\*S125M-72(B) (\*\*\*=180W-200W)

CRM\*\*\*S125M-39(E) (\*\*\*=95W-110W)  
CRM\*\*\*S125M-39(BE) (\*\*\*=95W-110W)  
CRM\*\*\*S156M-72(\*\*\*=280W-310W)  
CRM\*\*\*S156M-72(B) (\*\*\*=280W-310W)  
CRM\*\*\*S156M-72(T) (\*\*\*=280W-310W)  
CRM\*\*\*S156M-72(BT) (\*\*\*=280W-310W)  
CRM\*\*\*S156M-60(\*\*\*=235W-260W)  
CRM\*\*\*S156M-60(B) (\*\*\*=235W-260W)  
CRM\*\*\*S156M-60(T) (\*\*\*=235W-260W)  
CRM\*\*\*S156M-60(BT) (\*\*\*=235W-260W)  
CRM\*\*\*S156M-54(\*\*\*=210W-230W)  
CRM\*\*\*S156M-54(B) (\*\*\*=210W-230W)  
CRM\*\*\*S156M-54(T) (\*\*\*=210W-230W)  
CRM\*\*\*S156M-54(BT) (\*\*\*=210W-230W)  
CRM\*\*\*S156P-60(\*\*\*=225W-260W)  
CRM\*\*\*S156P-60(B) (\*\*\*=225W-260W)  
CRM\*\*\*S156P-60(T) (\*\*\*=225W-260W)  
CRM\*\*\*S156P-60(BT) (\*\*\*=225W-260W)  
CRM\*\*\*S156P-72(\*\*\*=275W-310W)  
CRM\*\*\*S156P-72(B) (\*\*\*=275W-310W)  
CRM\*\*\*S156P-72(T) (\*\*\*=275W-310W)  
CRM\*\*\*S156P-72(BT) (\*\*\*=275W-310W)

### **3. Limited Peak Power Warranty - Limited Remedy**

1) Power Test Condition: The DC power of a Product shall be tested under standard test conditions which are: light intensity  $1000 \text{ W/m}^2$ , temperature  $25 \text{ }^\circ\text{C}$ , AM 1.5. Here,  $1000\text{W/m}^2$  expressed as light radiation of standard solar module's test; AM 1.5 expressed as a ratio of 1.5 to the path length vertically upwards;  $25 \text{ }^\circ\text{C}$  expressed as

working under the condition of 25 °C.

2) Warranty Condition: The Buyer shall ensure proper transport, system design, installation, use, environment and maintenance for the Products, following installation guide and relevant rules.

3) Power Attenuation

a) Monocrystalline module: within the first year from the date of installation, the output power shall not be less than 97% of the Product's minimum output power as set forth in the Specifications. Within the second year, the output power shall not be less than 96% of the Product's minimum output power as set forth in the Specifications. In the following years, the loss of average annual output power shall not be exceed 0.7% of the Product's output power as set forth in the Specifications. After 10 years, the Product's output power shall not be less than 90% of its minimum output power as set forth in the Specifications. After 25 years, the Product's output power shall not be less than 80% of its minimum output power as set forth in the Specifications.

b) Polycrystalline module: within the first year from the date of installation, output power shall not be less than 97.5% of the Product's minimum output power as set forth in the Specifications. Within the second year, the output power shall not be less than 96.5% of the Product's minimum output power as set forth in the Specifications. In the following years, the loss of average annual output power shall not be exceed 0.7% of the product's output power as set forth in the Specifications. After 10 years, the Product's output power shall not be less than 90% of its minimum output power as set forth in the Specifications. After 25 years, the Product's output power shall not be less than 80% of its minimum output power as set forth in the Specifications.

#### **4. Exclusions and Limitations**

- A. In any event, all claims must be received within the applicable warranty period for this warranty to be effective.
- B. The “Limited Product Warranty” doesn’t apply to any MODULES’ defects which have been judged by CHAORISOLAR as caused by the following reasons:
- Misuse, abuse, neglect or accident;
  - Alteration, improper installation or application;
  - Non-observance of CHAORISOLAR’ s installation, use and maintenance instructions;
  - Repair or modifications by someone other than an approved service technician of CHAORISOLAR;
  - Power failure surges, lighting, flood, fire, accidental breakage or other events beyond CHAORISOLAR’ S control.
- C. The Limited Warranty doesn’t cover any cost associated with installation, removal or re-installation of the Modules or the cost for the return of the MODULES.
- D. When the products apply in non-ground foundation environment, warranty period should be within 10 years, according to Clause 3.
- E. Warranty claims will not be honored if the type or serial numbers of the MODULES have been altered, removed or illegible.

## **5. Limitation of Warranty Scope**

This “Limited Warranty for PV MODULES” as set forth herein is expressly in lieu of and exclude all other express or implied warranties, including but not limited to warranties of merchantability and of fitness for particular purpose, use, or application, and all other obligations or liabilities on the part of CHAORISOLAR, unless such other obligations or liabilities are expressly agreed to in writing signed and approved by CHAORISOLAR. CHAORISOLAR shall have no responsibility or

liability whatsoever for damage or injury to persons or property, or for other loss or injury resulting from any cause whatsoever arising out of or related to the MODULES, including, without limitation, any defects in the MODULES, or from use or installation. Under no circumstances shall CHAORISOLAR be liable for incidental, consequential or special damages, howsoever caused. Loss of use, loss of profits, loss of production, and loss of revenues are specifically and without limitation excluded.

CHAORISOLAR 's aggregate liability, if any, in damages or otherwise, shall not exceed the invoice value as paid by the CUSTOMER, for the single unit of MODULE.

## **6. Obtain Warranty Performance**

If the CUSTOMER has a justified claim covered by this "Limited Warranty for PV Modules", an immediate notification shall be filed by mailing a registered letter in writing to the seller or the dealers authorized by CHAORISOLAR or the address of CHAORISOLAR listed hereunder. Together with the notification, the CUSTOMER should enclose the evidence of the claim with the date on which the MODULES have been purchased. The sellers and the dealers would give the suggestions to deal with the claim. For more cooperation, CUSTOMERS could ask for instructions in writing to CHAORISOLAR. Unless CHAORISOLAR has given approval in writing in advance, any return of the MODULES wouldn't be accepted.

## **7. Disputes**

Any forms' disputes which have happened more than one year, the customers couldn't do the disputes this warranty anymore.

## **8. Other Business**

The repair or replacement of the MODULES or the supply of additional MODULES, does not cause the beginning of new warranty terms, nor shall the original terms of this “Limited Warranty for PV-Modules” be extended. Any replaced MODULES shall become the property of CHAORISOLAR. CHAORISOLAR has the right to deliver another type (different in size, color, shape and/or power) in case CHAORISOLAR has discontinued producing the replaced MODULES at the time of the claim.

If the MODULES bought by customers are beyond this “Limited Product Warranty”, customers could contact with CHAORISOLAR to get more information.

## **9. Force Majeure**

CHAORISOLAR shall not be responsible or liable in any way to the customer or any third-party arising from any non-performance or delay in performance of any terms and conditions of sale, due to unavailable of enough labor force, materials, mold, capacity and technology caused by natural disasters, wars, riots, strikes or any other similar cause or circumstance beyond the reasonable control of CHAORISOLAR. Including but not limited to any technologies, affairs or environmental conditions which couldn't be foresee or understand when doing the commerce or claims of the Modules. In such cases, performance by CHAORISOLAR of this Limited Warranty shall be suspended without liability for the period of delay reasonably attributable to such causes.

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“Nominal Power in Datasheet” is the power in Watt peak that a PV-module generates in its Maximum Power Point under STC condition. “CRM” are as follows:

- (1) light spectrum of AM 1.5,
- (2) an irradiation of 1000 W/m<sup>2</sup> and
- (3) a cell temperature of 25 degrees centigrade at right angle irradiation.

The measurements are carried out in accordance with IEC 61215 as tested at the connectors or junction box terminals – as applicable – per calibration and testing standards of CHAORISOLAR valid at the date of manufacture of the PV-modules.



CHAORISOLAR  
超日太阳