

# Growatt Omvormers

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Garantievoorwaarden  
leveranciers



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- in view of the value that the device would have without the defect,
- taking into account the significance of the defect, and
- after consideration of alternative workaround possibilities that Growatt customers could revert to without significant inconvenience.

### Warranty claim procedure:

Please report the defective device to your supplier with this warranty card completed.

Supplier is required to send the warranty claim form to Growatt or Authorized service partner with all the necessary information

Customers must present this warranty card, inverter purchasing & Installation invoice, and other related materials as well if required..

Please note Growatt reserve the ultimate explanation right on this warranty card.

Please fill in the required information below when your device is defective, scan and send it to your supplier or email your supplier with all the information



### End User Information

Customer name:  
Phone number:  
Email:  
Detailed address:

### Product Information

Inverter Model:  
Serial No. (S/N):  
Purchase date:  
Dealer/Installer:  
Commissioning data:

GR - WA - 01 - A - 05

# Warranty Card

## Growatt Factory Warranty

For the inverter with this warranty card you purchased, you receive a Growatt factory warranty valid for 10 years from the date of installation and no more than ten and a half years from the delivery date from Growatt New Energy Technology Co., Ltd.

This warranty includes all defects of design, components and manufacturing.

Excluded from warranty are damages due to:

- Breaking the product seal (opening the casing) without proper approval
- Transport damage
- Incorrect installation or commissioning
- Failure to observe the user manual, the installation guide, and the maintenance regulations
- Unauthorized Modifications, changes, or attempted repairs
- Incorrect use or inappropriate operation
- Insufficient ventilation of the device
- Failure to observe the applicable safety regulations
- Force majeure (e.g., lightning, over voltage, storm, fire)

## Warranty condition

If a device becomes defective during the agreed Growatt factory warranty period and provided that it will not be impossible or unreasonable, the device will be, as selected by Growatt:

- repaired by Growatt, or
- repaired on-site, or
- exchanged for a replacement device of equivalent value according to model and age.

In the latter case, the remainder of the warranty entitlement will be transferred to the replacement device. In this case, you do not receive a new certificate since your entitlement is documented at Growatt.

In the latter 5 years, Growatt have the exclusive right to determine how to carry out the remained warranty. In case Growatt provide replacement for customers, Growatt are not responsible for any other sorts of costs during the service procedure in that period, including (but not limited to) logistics fare, labor cost, any kind of compensation. Also the replacement may have a little flaw on its surface, and the warranty excludes any general defects, if inverter is still generating power to grid.

Excessiveness in the meaning above exists in particular if the cost of the measures for Growatt would be unreasonable.

# SolarEdge Omvormers en Optimizers

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## LIMITED PRODUCT WARRANTY

This SolarEdge Technologies Ltd. Limited Warranty covers defects in workmanship and materials of the below-listed products for the applicable Warranty Period set out below (the "Products"):

- **Power optimizers:** 25 years commencing on the earlier of: (i) 4 months from the date the power optimizers are shipped from SolarEdge; and (ii) the installation of the power optimizers, *provided, however*, that for the module embedded power optimizers (CSI and OPJ models), the Warranty Period shall not exceed the maximum of (1) the module product warranty and (2) the module power warranty periods provided by the applicable module manufacturer.
- **Inverters, Safety & Monitoring Interface (SMI), Auto-transformer:** 12\* years commencing on the earlier of: (i) 4 months from the date the products are shipped from SolarEdge; and (ii) the installation of the products.
- **StorEdge Interface:** 10 years commencing on the earlier of: (i) 4 months from the date the Interfaces are shipped from SolarEdge; and (ii) the installation of the Interfaces.
- **ZigBee Gateway, Commercial Gateway, Firefighter Gateway, Smart Energy products, Wireless Communication Products, RS485 Plug-in, Energy Meter:** 5 years commencing on the earlier of: (i) 4 months from the date the product is shipped from SolarEdge; and (ii) the installation of the product. Warranty duration of wireless communication products is the same whether or not the product is pre-installed in the inverter.

\* In some countries the inverter warranty is limited to 7 years. For a list of these countries please access

[http://www.solaredge.com/articles/warranty\\_exceptions](http://www.solaredge.com/articles/warranty_exceptions)

The Limited Warranty does not apply to components which are separate from the Products, ancillary equipment and consumables, such as, for example, cables, cable holders, fuses, wires and connectors, whether supplied by SolarEdge or others. Some components may carry their own manufacturer warranty. See product datasheet for more details. In addition, for all power optimizers with a part number ending in C, the SolarEdge warranty does not apply to the input connector.

The Limited Warranty only applies to the buyer who has purchased the Products from an authorized seller of SolarEdge for use in accordance with their intended purpose. The Limited Warranty may be transferred from buyer to any assignee, and will remain in effect for the time period remaining under the foregoing warranties, *provided* that the Products are not moved outside its original country of installation and any reinstallation is done in accordance with the installation directions and use guidelines accompany the Products (collectively the "*Documentation*").

If, during the applicable Warranty Period, buyer discovers any defect in workmanship and materials and seeks to activate the Limited Warranty, then buyer shall, promptly after such discovery, report the defect to SolarEdge by sending an email to [support@solaredge.com](mailto:support@solaredge.com) with the following information: (i) a short description of the defect, (ii) the Product's serial number, and (iii) a scanned copy of the purchase receipt or warranty certificate of the applicable Product.

Upon buyer's notification, SolarEdge shall determine whether the reported defect is eligible for coverage under the Limited Warranty. The Product's serial number must be legible and properly attached to the Product in order to be eligible for Warranty coverage. If SolarEdge determines that the reported defect is not eligible for coverage under the Limited Warranty, SolarEdge will notify buyer accordingly and will explain the reason why such coverage is not available. If SolarEdge determines that the reported defect is eligible for coverage under the Limited Warranty, SolarEdge will notify buyer accordingly, and SolarEdge may, in its sole discretion, take any of the following actions:

- repair the Product at SolarEdge's facilities or on-site; or
- issue a credit note for the defective Product in an amount up to its actual value at the time buyer notifies SolarEdge of the defect, as determined by SolarEdge, for use toward the purchase of a new Product; or
- provide Buyer with replacement units for the Product.

SolarEdge will determine whether the Product should be returned to SolarEdge and, if SolarEdge so determined, the Return Merchandise Authorization ("*RMA*") Procedure (set out below) will be invoked. Where replacement Products are sent, SolarEdge generally sends such products within 48 hours. SolarEdge may use new, used or refurbished parts that are at least functionally equivalent to the original part when making warranty repairs. The repaired Product or replacement parts or Product, as applicable, shall continue to be covered under the Limited Warranty for the remainder of the then-current Warranty Period for the Product.

Where the RMA Procedure is invoked by SolarEdge, SolarEdge will instruct buyer how to package and ship the Product or part(s) to the designated location. SolarEdge will bear the cost of such shipment, upon receipt of the Product or part(s), SolarEdge will, at its expense and sole discretion, either repair or replace the Product or part(s).

SolarEdge will deliver the repaired or replaced Product or part(s) to buyer at buyer's designated location in countries where SolarEdge has an office and/or there is a significant PV market. For the specific list of countries to which such service is provided,

please access [http://www.solaredge.com/articles/shipping\\_cost\\_coverage\\_warranty](http://www.solaredge.com/articles/shipping_cost_coverage_warranty). SolarEdge will bear the cost of such shipment, including shipping and customs (where applicable) and buyer shall bear any applicable value added tax. SolarEdge may elect to ship replacement Product and/or part(s) prior to receipt of the Product and/or part(s) to be returned to SolarEdge as per the above.

All costs, including, without limitation, labor, travel and boarding costs of SolarEdge service personnel or others that are incurred for labor relating to repairs, uninstalling and reinstalling of Products on-site, as well as costs related to buyer's employees and contractors repair or replacement activities, are not covered by the Limited Warranty and, unless otherwise agreed in writing in advance by SolarEdge, shall be borne by the buyer.

**Warranty Exclusions:** This Limited Warranty will not apply if (a) buyer is in default under the General Terms and Conditions of other Agreement governing the purchase of the Product, or (b) the Product or any part thereof is:

- damaged as a result of misuse, abuse, accident, negligence or failure to maintain the Product;
- damaged as a result of modifications, alterations or attachments thereto which were not pre-authorized in writing by SolarEdge;
- damaged due to the failure to observe the applicable safety regulations governing the proper use of the Product;
- installed or operated not in strict conformance with the Documentation, including without limitation, not ensuring sufficient ventilation for the Product as described in SolarEdge installation guide;
- opened, modified or disassembled in any way without SolarEdge's prior written consent;
- used in combination with equipment, items or materials not permitted by the Documentation or in violation of local codes and standards;
- damaged by software, interfacing, parts, supplies or other product not supplied by SolarEdge;
- damaged as a result of improper site preparation or maintenance or improper installation;
- damaged or rendered non-functional as a result of power surges, lightning, fire, flood, pest damage, accident, action of third parties, direct exposure to sea water or other events beyond SolarEdge's reasonable control or not arising from normal operating conditions; or
- damaged during or in connection with shipping or transport to or from buyer where buyer arranges such shipping or transport.

This Limited Warranty does not cover cosmetic or superficial defects, dents, marks or scratches, which do not influence the proper functioning of the Product.

THE LIMITED WARRANTIES SET OUT HEREIN ARE IN LIEU OF ANY OTHER WARRANTIES WITH RESPECT TO THE PRODUCTS PURCHASED BY BUYER FROM SOLAREEDGE, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), ALL OF WHICH ARE EXPRESSLY EXCLUDED TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW.

Claims by buyer that go beyond the warranty terms set out herein, including claims for compensation or damages, are not covered by the Limited Warranty, insofar as SolarEdge is not subject to statutory liability. In such cases, please contact the company that sold you the Product. Eventual claims in accordance with the law on product liability remain unaffected.

Coverage under the Limited Warranty is subject to buyer complying with the foregoing notification requirements and cooperating with SolarEdge's directions. SolarEdge's sole obligation and buyer's exclusive remedy for any defect warranted hereunder is limited to those actions expressly stated above. Such actions are final and do not grant any further rights, in particular with respect to any claims for compensation.

Unless otherwise specified in an executed Agreement with SolarEdge, the Limited Warranty and related provisions set out herein are subject to SolarEdge's General Terms and Conditions, including, without limitation, the provisions thereof, which relate to disclaimer of warranties, limitation of liability and governing law and jurisdiction.

# LONGi Zonnepanelen

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# Limited Warranty for Solar Modules

(Single Glass Series)

V08\_20190901

This Limited Warranty is suitable for the following LONGI Modules model	
LR6-60PE-xxxM	LR6-72PE-xxxM
LR6-60PH-xxxM	LR6-72PH -xxxM
LR6-60PB-xxxM	LR6-72PB -xxxM
LR6-60HP-xxxM	LR6-72HP-xxxM
LR6-60HPH-xxxM	LR6-72HPH-xxxM
LR6-60HPB-xxxM	LR6-72HPB-xxxM
LR6-66HP-xxxM	LR6-78HP-xxxM
LR6-66HPH-xxxM	LR6-78HPH-xxxM
LR6-66HPB-xxxM	LR6-78HPB-xxxM
<i>LR6-60HIH-xxxM</i>	<i>LR6-72HIH-xxxM</i>
<i>LR6-60HIB-xxxM</i>	
<i>LR4-60HPH-xxxM</i>	<i>LR4-72HPH-xxxM</i>
<i>LR4-60HIH-xxxM</i>	<i>LR4-72HIH-xxxM</i>
<i>LR4-60HPB-xxxM</i>	<i>LR4-60HIB-xxxM</i>



Supplier is committed to the following quality performance warranty for solar modules (hereinafter referred to as “modules”). The Product Warranty Term starts as of the delivery date as per INCOTERMS 2010 or 6 months after the modules are shipped out of the production plant, which the earlier date shall be effective (hereinafter short as the “Warranty Effective Date”).

### **1. Limited Product Warranty-Repair or Replacement within 10 years**

Supplier assures that under the conditions for regular application, installation, use and service, the integral module (including attached DC connectors, cables) can meet the demand of regular application, use and installation and have no defect caused by material and process within 120 months as of the Warranty Effective Date. If the modules get out of order or fail to operate due to material or process defects within 120 months as of the Warranty Effective Date, Supplier provides remedy, only repairing and replacing the failed modules after verification and confirmation by an independent testing institution agreed by Supplier and the customer in advance. The remedy of repair or replacement is the exclusive measure within this “Limited Product Warranty”, which does not involve assurance for the module power output. The power output assurance is to be specially elaborated in the Section 2 “Limited Warranty for Peak Power” below.

### **2. Limited Warranty for Peak Power - Limited Compensation**

Supplier provides power output loss assurance within 25 years as of the Warranty Effective Date. Power output loss is calculated by comparing the minimum “module nominal power under standard testing conditions” (short as nominal power) marked on the nameplate with the actual power output under standard testing conditions.

The annual attenuation is less than 2% within the 1<sup>st</sup> year from the Warranty Effective Date and is less than 0.55% from the 2<sup>nd</sup> year to the 25<sup>th</sup> year within the peak power warranty period. The output power can reach 84.8% in the last year of the 25-year peak power warranty period.

Supplier assures that any qualified module sold out can meet the power guarantee value mentioned above within 25 years of power warranty period from the Warranty Effective Date. If any power loss exceeds the guaranteed value verified by Supplier, and Supplier attributes such power loss to its material or process defects, or such power loss is further (required by customers) verified by the third party testing institution (agreed

by both the customer and Supplier), Supplier will make judgment at its discretion and take either remedial measures as (1) provide extra modules to make up for power loss as above; or (2) repair or replace the defected modules and provide the shipment free of charge to the initial delivery location.

The above-mentioned compensations in “Limited Warranty for Peak Power” are the sole and exclusive remedy measures.

Note: If any customer finds that the defective modules need to be returned before the treatment, the freight shall be borne on the customer. If the third party testing institution confirms that it is the responsibility within the scope of Supplier quality warranty, the shipping cost can be compensated as per the freight or related invoice provided by the customer.

### **3. Exceptions and Restrictions**

(a) All quality warranty claims shall be submitted to Supplier or Supplier authorized distributors in written form within but not beyond the warranty period in any cases.

(b) “Limited Product Warranty” and “ Limited Warranty for Peak Power” do not apply to modules in situations below:

- Improper use, misuse, negligence, intentional damage or accidents;
- Fabrication without permission, improper installation or application;
- The customers move the installed module or change the location of the module installed without any prior written consent or authorization by the supplier.
- Fail to follow the repair and recovery instructed by the producer;
- Fail to follow the Supplier maintenance instructions;
- Power failure, power surge, lightning, fire and flood, accidental damage or force majeure.

(c) “Limited Product Warranty” and “Limited Warranty for Peak Power” do not compensate costs as, any costs related to module installation, demounting and re-installation (except for those stated in the last part of Section 5) or custom clearance costs and other costs related to return and replacement of modules.

(d) Claims will be rejected if the module model and serial number labels are falsified, removed or blurred without written authorization by Supplier.

#### **4. Quality Warranty Scope**

Unless Supplier agrees on and signs and recognizes other obligations and liabilities in written form, the warranty clauses in this quality warranty will replace and exclude other explicit or implied assurances including but not limited to the merchantability assurance, or assurance for special purposes or applications, and other obligations and liabilities undertaken by Supplier. Supplier shall not be responsible for human injury or property losses nor for other losses or injuries caused by modules or module-related problems (including but not limited to any module defect or any defect caused by use and installation). Supplier shall not compensate any collateral damages, derived damages or special damages by any cause. Losses such as profit loss, production loss or revenue loss caused by product faults are excluded hereby. If Supplier makes compensation for customers, the accumulated compensation amount shall not exceed the invoicing price for a single module paid by the customer.

#### **5. Quality Warranty Performance**

If any customer proposes legitimate quality warranty requirements in accordance with the “Limited Product Warranty”, they shall send a written notice by registered letter to Supplier at the address below or send email to Supplier email address. The customer shall attach proof of quality warranty herewith, corresponding module serial number and purchasing date and provide the invoice marked with clear purchasing date, price, module model and Supplier seal or signature.

If modules need to be shipped to Supplier for testing, repair or replacement, Supplier shall provide the return merchandise authorization (RMA) to the customer. Supplier will not accept returned modules without RMA. With approval of the customer service department, the reasonable, normal and proved shipping cost (including return cost and re-shipping cost of repaired and replaced modules) of modules related to “Limited Product Warranty” and “Limited Warranty for Peak Power” will be compensated by Supplier to customers.

#### **6. Transferability**

The clauses of this “Quality Warranty” will cover end users and can be transferred to any successive owners if the module’s installation position is unchanged and the

inheritance or transferring relations can be sufficiently proved.

## **7. Severability of Clauses**

Should a part or a clause of the “Quality Warranty” is considered invalid or ineffective or not executable, or this part or clause to some people or some conditions is deemed invalid or ineffective or not executable, this situation shall not affect effectiveness of other parts or clauses of the “Quality Warranty”. In this case, the other parts or clauses in this “Quality Warranty” or the applicability of this “Quality Warranty” are considered independently effective.

## **8. Dispute Resolution**

If any dispute occurs with quality warranty claims, one of the domestic first-class testing institutions such as TÜV SUD, Intertek, UL, CQC and CGC shall be invited for verdict of the final claim. All the cost shall be borne by the losing party unless otherwise stipulated in the verdict. Supplier reserves the right for the final interpretation.

Further dispute resolutions shall be executed by the applicable legal jurisdiction agreed upon in the sales contract signed by both parties.

## **9. Alteration**

The repair, replacement or the provision of extra modules does not mean that the warranty period is renewed and the original warranty period shall not extend. Any replaced modules are possessed by Supplier and shall be treated or disposed of at its own discretion. In case Supplier has stopped producing the same model as the defective modules which the claim is made against, Supplier shall keep the right to provide the modules of other models (different sizes, color, shape or power), either new brand or original brand.

## **10. Force Majeure**

If Supplier fails to perform or postpone performing sales articles or this “Quality Warranty” in the event of fire, flood, storm, typhoon, lightning, natural disaster, change of public policies, terrorism, war, riot, strike, or unavailability of proper and sufficient labor and materials or due to any other reasons or situations out of control of Supplier, Supplier shall not take any responsibilities for customers or any third party. In this case, Supplier shall not take any responsibilities for end users or any third party in any form.

Note: “Peak power” is the maximum power of solar module under the standard testing

conditions (STC). Standard testing conditions refer to as:

- (a) Spectrum amplitude AM1.5
- (b) 1000W/m<sup>2</sup> irradiance
- (c) Irradiance at the correct angle and the cell temperature is 25°C.

Testing is done at the terminal of the junction box according to IEC61215 (equivalent to GB/T 9535). Supplier's calibration and testing standard are effective on the manufacturing date of the solar modules. Supplier's calibration standards are consistent with the approved standards by international institutions. During the period of 'Limited Warranty for Peak Power', measurement uncertainty shall be counted when determining module's output power, according to standard IEC 60904.

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# Phono Solar Zonnepanelen

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# Phono<sup>®</sup> Solar

## **Product Warranty** PV-Modules

2019.V1



## **Phono Solar PV Modules with the Model Names covered under this warranty are:**

### **Monocrystalline Products:**

- ◆ PSXXXM-20/UH (XXX = 300-320, in steps of 5)
- ◆ PSXXXMH-20/UH (XXX = 300-320, in steps of 5)

The product (hereinafter the “Product” ) in this Warranty means the All black Twinplus PV Module(s) manufactured by Phono Solar Technology Co., Ltd. (hereinafter the “Phono Solar”). The Phono Solar warrants its Product(s) in compliance with the terms and conditions as stipulated below.

The Customer in this Warranty means the individual person or company who purchases Phono Solar Product.

This “Limited Warranty for PV-Modules” is valid for all Standard Modules delivered from Phono Solar since **August 1st, 2018**.





## 1 Limited Product Warranty –Repair or Replacement

*Fifteen (15) years*

Phono Solar warrants that the Product including factory-assembled DC connectors and cables, if any, will be free from defects in material and workmanship under normal application, installation, operation, and use and service conditions. If Product fails to conform to this warranty, within a period of fifteen (15) years from the date of delivery by Phono Solar to its first buyer, Phono Solar will, at its sole discretion, either repair the defective Product(s) at no charge, or replace the defective Product(s) or part thereof by a new or remanufactured equivalent at no charge, within the above specified period. This repair or replacement remedy shall be the sole and exclusive remedy provided under the “Limited Product Warranty” and shall not extend beyond the fifteen (15) years period set forth herein.

This “Limited Product Warranty” does not warrant a specific power output, which shall be exclusively covered under clause 2 hereinafter (“Limited Linear Peak Power Warranty”).

## 2 Limited Linear Peak Power Warranty - Limited Remedy

Phono Solar guarantees that during the first (1st) year from the date of delivery by Phono Solar to the first buyer, For **Monocrystalline Products**: 3.0% of the “Peak Power at STC” -1 as specified as of the Phono Solar’s product label in the first year, thereafter the actual annual power decline no more than 0.7% per year, ending with 80.2% of the “Peak Power at STC” -1 as specified as of the Phono Solar’s product label in the 25th year after the Warranty Start Date.

Provided that such loss in power is determined by Phono Solar (at its sole and absolute discretion) to be due to defects in material or workmanship, Phono Solar will, at its sole option, replace such loss in power by either (a) providing additional Product(s) to the Customer to make up for such loss in power or (b) replacing the defective Product(s) at the option of Phono Solar.

The remedies set forth in this clause 2 shall be the sole and exclusive remedies provided under the “Limited Linear Peak Power Warranty”.

## 3 Exclusions and Limitations

(1) In any event, all warranty claims must be received within the applicable warranty period for this warranty to be effective.

(2) The “Limited Product Warranties” and the “ Limited Linear Peak Power Warranties” do not apply to any Product(s) which have been subjected to:

- ◆ Misuse, abuse, neglect or accident;
- ◆ Alteration, improper installation or application;
- ◆ Non-observance of Phono Solar’s installation manual;
- ◆ Impairments caused by external effects, such as e.g., dirt stains, smoke, damages caused by salt, by chemicals not explicitly authorized for use, e.g. for cleaning. Repair or modifications by someone other than an approved service technician of Phono Solar;
- ◆ Power failure surges, lightning, flood, fire, accidental breakage or other events out of Phono Solar’s control;
- ◆ Caused by external events including but not limited to defective equipment parts, appliances, system components like, connecting cables, invertors, or the like, which have been coupled with the Module by anyone other than Seller, or caused by defective system design, configuration, or installation planning;
- ◆ Removal of Modules and reinstallation at a new site;
- ◆ Installation on mobile platforms or in a marine environment; direct contact with corrosive agents or salt water; pest damage; or malfunctioning system components;
- ◆ Alteration, removal or obliteration of the original Module label;
- ◆ Other events that are reasonably beyond the control of Phono Solar.

(3) Both the “Limited Product Warranties” and “Limited Linear Peak Power Warranties” do not cover any costs associated with installation, removal or re-installation of the PV-modules and (except as explicitly set forth in the final paragraph of Section 5) customs clearance or any other costs for return of the Product(s);.

(4) Both the “Limited Product Warranties” and “Limited Linear Peak Power Warranties” do not cover cosmetic blemishes associated with installation, or the normal wear and tear of Phono Solar Modules.



## 4 Limitation of Warranty Scope

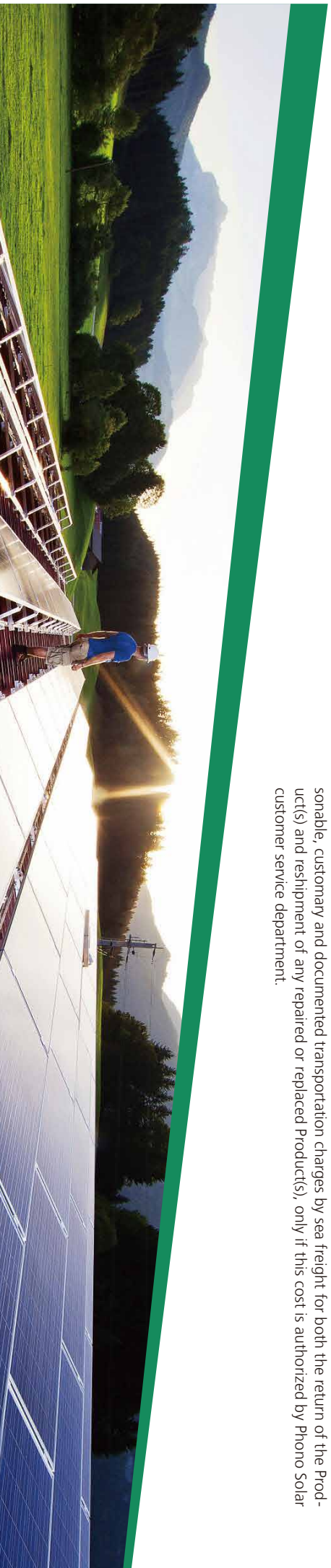
These warranties as set forth herein are expressly in lieu of and exclude all other warranties of any kind whatsoever, whether express or implied, including but not limited to warranties of merchantability, of fitness for particular purpose, use, or application, of non-infringement and all other obligations or liabilities on the part of Phono Solar, unless such other obligations or liabilities are expressly agreed to in writing signed and approved by Phono Solar to the broadest extent permitted by law.

Phono Solar 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 Product(s), including, without limitation, any defects in the Product(s), or from use or installation. Under no circumstances shall Phono Solar be liable for any special punitive, incidental, or consequential damages, howsoever caused, including but not limited to loss of use, loss of profits, loss of production, or loss of revenues, arising, directly or indirectly from the sale or use of any Product(s), whether such claim is based on warranty, contract, negligence, strict liability or otherwise, Phono Solar'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 Product(s) involved. The rights and limitations herein shall leave unaffected any legal rights existing under mandatory applicable laws.

## 5 Obtaining Warranty Performance

If the Customer has a justified claim covered by this "Limited Warranties for PV Modules", an immediate notification directly to Phono Solar shall be filed by mailing a registered letter in writing to the address of Phono Solar listed hereunder, or by, sending an email letter to the email account of Phono Solar Service Center listed hereunder as soon as becoming aware of the circumstances which constitute a warranty case. Together with the notification, the Customer should enclose the following information:

- ◆ The necessary contact information of the Customer, including its name, address, telephone, email, etc.,
- ◆ The corresponding serial number of the Product(s)
- ◆ The date on which the Product(s) have been delivered and installed
- ◆ The pictures of the defective Module which show the defect and/or the pictures which show the shadowing situation at the installation location
- ◆ The timely receipt of the notification by Phono Solar shall be decisive.
- ◆ The return of any PV-modules will not be accepted unless prior written authorization for the return and evaluation of the claimed defect has been given by Phono Solar. To the extent necessary for processing the return request Phono Solar or its authorized person shall be given commercially reasonable access to the Product(s) for inspection and analysis of the claimed defect. In connection with both the "Limited Product Warranties" and "Limited Linear Peak Power Warranties", Phono Solar shall reimburse Customer for reasonable, customary and documented transportation charges by sea freight for both the return of the Product(s) and reshipment of any repaired or replaced Product(s), only if this cost is authorized by Phono Solar customer service department.





# Phono® Solar

## 6 Severability

If a part, provision or clause of this “Limited Warranty for PV-Modules” , or the application thereof to any person or circumstance, is held invalid, void or unenforceable, such holding shall not affect and shall leave all other parts, provisions, clauses or applications of this “Limited Warranty for PV-Modules” , and to this extent such other parts, provisions, clauses or applications of this “ Limited Warranty for PV-Modules” shall be treated as severable.

## 7 Disputes

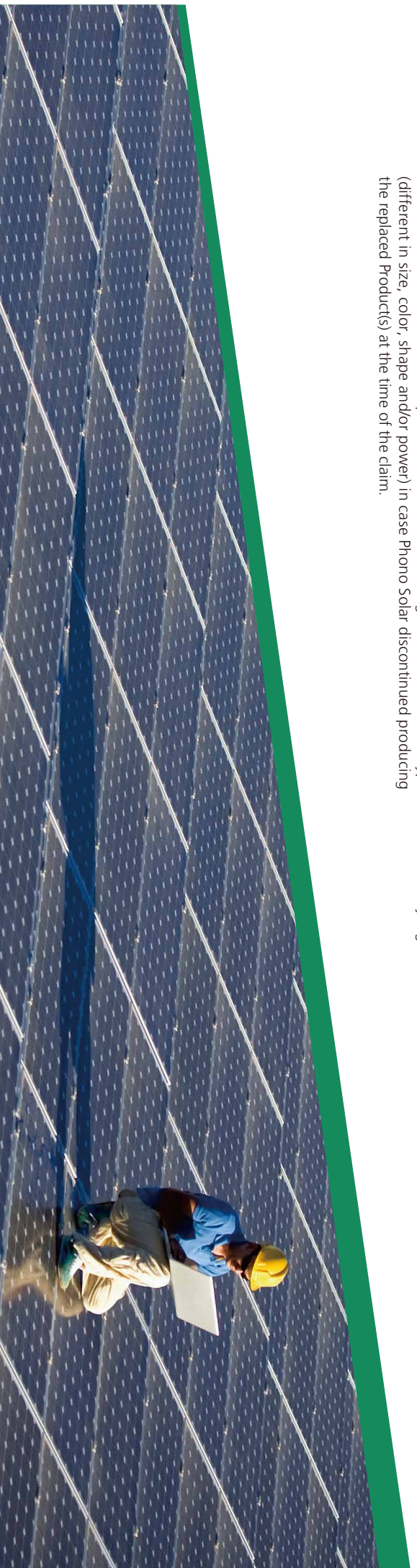
In case of any discrepancy in a warranty-claim, a first-class international test-institute such as Fraunhofer ISE in Freiburg/ Germany, TÜV Rheinland in Cologne/ Germany or ASU Arizona State University shall be involved to judge the claim finally. All fees and expenses shall be born by the losing party, unless otherwise awarded. The final explanation right shall be borne by Phono Solar.

## 8 Various

The repair or replacement of the Product(s) or the supply of additional Product(s), 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 Product(s) shall become the property of Phono Solar made for their disposal. Phono Solar has the right to deliver another type (different in size, color, shape and/or power) in case Phono Solar discontinued producing the replaced Product(s) at the time of the claim.

## 9 Warranty Transfer

This warranty is transferable from the original Customer to any assignee and remains in effect for the time period remaining under the limited warranties, provided the Product remains installed in its original location at the warranty registration.





## 10 Force Majeure

Phono Solar 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, including this "Limited Warranty for PV-Modules ", due to acts God, war, riots, strikes, warlike conditions, plague or other epidemics, fire, flood, or any other similar cause or circumstance beyond the reasonable control of such Phono Solar. In such cases, performance by Phono Solar of this Limited Warranty shall be suspended without liability for the period of delay reasonably attributable to such causes.

1 "Peak Power at STC " is the power in Watt peak that a PV- Module generates in its Maximum Power Point. "STC" are as follows:

Light spectrum of AM 1.5, (b) an irradiation of 1000 W per m<sup>2</sup> and (c) a cell temperature of 25 degree 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 Phono Solar valid at the date of manufacture of the PV-modules. The power output shall be measured by a laboratory approved by Phono Solar.



# Phono<sup>®</sup> Solar

## PHONO SOLAR TECHNOLOGY CO., LTD.

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# Trina Solar Zonnepanelen

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Garantievoorwaarden  
leveranciers





Trina Solar Co., Ltd

## LIMITED WARRANTY FOR TRINA SOLAR BRAND CRYSTALLINE SOLAR PHOTOVOLTAIC MODULES

PS-M-0135 Rev. N May 1, 2020

### Limited Warranty

Trina Solar Co., Ltd ("Trina Solar") hereby grants the following limited Warranty to the first customer installing (for its own use) (the "Buyer") any of the specified (and no other) brand models listed below (the "Products"):

#### 1) Warranted Products

This limited Warranty shall only apply to the following Products:

##### a) P-type Poly of Back Sheet Glass Products

- (i) TSM-\*\*\*PA03, TSM-\*\*\*PA05, TSM-\*\*\*PA05.05, TSM-\*\*\*PA05.08, TSM-\*\*\*PA05A, TSM-\*\*\*PA05A.05, TSM-\*\*\*PA05A.08, TSM-\*\*\*PA14, TSM-\*\*\*PA14A, TSM-\*\*\*PA05.002, TSM-\*\*\*PA05.052, TSM-\*\*\*PA05.082; TSM-\*\*\*PC03, TSM-\*\*\*PC05, TSM-\*\*\*PC05.01, TSM-\*\*\*PC05.05, TSM-\*\*\*PC05.08, TSM-\*\*\*PC05A, TSM-\*\*\*PC05A.05, TSM-\*\*\*PC05A.08, TSM-\*\*\*PC05B, TSM-\*\*\*PC05B.05, TSM-\*\*\*PC05B.08, TSM-\*\*\*PC14, TSM-\*\*\*PC14.08, TSM-\*\*\*PC14A, TSM-\*\*\*PC05A.002, TSM-\*\*\*PC05A.052, TSM-\*\*\*PC05A.082, TSM-\*\*\*PC05A.003, TSM-\*\*\*PC14.002, TSM-\*\*\*PC14.082, TSM-\*\*\*PC06, TSM-\*\*\*PC06.08, TSM-\*\*\*PC05A.08(II), TSM-\*\*\*PC14(II), TSM-\*\*\*PC14.08(II), TSM-\*\*\*PC05A.002(II), TSM-\*\*\*PC05A.052(II), TSM-\*\*\*PC05A.082(II), TSM-\*\*\*PC14.002(II), TSM-\*\*\*PC14.082(II); TSM-\*\*\*PD05, TSM-\*\*\*PD05.05, TSM-\*\*\*PD05.08, TSM-\*\*\*PD05.50, TSM-\*\*\*PD05.002, TSM-\*\*\*PD05.052, TSM-\*\*\*PD05.082, TSM-\*\*\*PD14, TSM-\*\*\*PD14.08, TSM-\*\*\*PD14.002, TSM-\*\*\*PD05(II), TSM-\*\*\*PD05.05(II), TSM-\*\*\*PD05.08(II), TSM-\*\*\*PD14(II), TSM-\*\*\*PD14.08(II); TSM-\*\*\*PD05.00S, TSM-\*\*\*PD05.05S, TSM-\*\*\*PD05.08S, TSM-\*\*\*PD05.05U, TSM-\*\*\*PD05.08U, TSM-\*\*\*PD05.00C, TSM-\*\*\*PD05.05C, TSM-\*\*\*PD05.08C, TSM-\*\*\*PD05.00D, TSM-\*\*\*PD05.05D, TSM-\*\*\*PD05.08D, TSM-\*\*\*PD14.00C, TSM-\*\*\*PE05A, TSM-\*\*\*PE05A.08, TSM-\*\*\*PE14A, TSM-\*\*\*PE14A.08, TSM-\*\*\*PE05A(II), TSM-\*\*\*PE05A.08(II), TSM-\*\*\*PE14A(II), TSM-\*\*\*PE14A.08(II); TSM-\*\*\*PE05H, TSM-\*\*\*PE05H.08, TSM-\*\*\*PE14H, TSM-\*\*\*PE14H.08, TSM-\*\*\*PD05H, TSM-\*\*\*PD14H, TSM-\*\*\*PD05HB.09, TSM-\*\*\*PE15H, TSM-\*\*\*PE15H.08, TSM-\*\*\*PE15H.09, TSM-\*\*\*PE06H, TSM-\*\*\*PE06H.08, TSM-\*\*\*PE06H.09, TSM-\*\*\*PE15A, TSM-\*\*\*PE15A.08, TSM-\*\*\*PE15A.09, TSM-\*\*\*PE06A, TSM-\*\*\*PE06A.08, TSM-\*\*\*PE06A.09, TSM-\*\*\*PD06H, TSM-\*\*\*PD06H.05, TSM-\*\*\*PD06H.08, TSM-\*\*\*PD06H.09, TSM-\*\*\*PD15H, TSM-\*\*\*PD15H.08, TSM-\*\*\*PD15H.09;;
- (ii) TSM-\*\*\*PA05.10, TSM-\*\*\*PA05.15, TSM-\*\*\*PA05.18, TSM-\*\*\*PA05A.10, TSM-\*\*\*PA05A.15, TSM-\*\*\*PA05A.18; TSM-\*\*\*PC05.10, TSM-\*\*\*PC05.15, TSM-\*\*\*PC05.18, TSM-\*\*\*PC05A.10, TSM-\*\*\*PC05A.15, TSM-\*\*\*PC05A.18, TSM-\*\*\*PC05A.10(II), TSM-\*\*\*PC05A.15 (II), TSM-\*\*\*PC05A.18 (II); TSM-\*\*\*PD05.T0, TSM-\*\*\*PD05.T8, TSM-\*\*\*PD05.10, TSM-\*\*\*PD05.15, TSM-\*\*\*PD05.18, TSM-\*\*\*PD14.T0, TSM-\*\*\*PD14.T8, TSM-\*\*\*PD14.10, TSM-\*\*\*PD14.15, TSM-\*\*\*PD14.18, TSM-\*\*\*PD05.T0(II), TSM-\*\*\*PD05.T8(II), TSM-\*\*\*PD14.T0(II), TSM-\*\*\*PD14.T8(II); TSM-\*\*\*PE05A.T0, TSM-\*\*\*PE05A.T8, TSM-\*\*\*PE05A.T9, TSM-\*\*\*PE14A.T0, TSM-\*\*\*PE14A.T8, TSM-\*\*\*PE14A.T9, TSM-\*\*\*PE14B.T0, TSM-\*\*\*PE14B.T8, TSM-\*\*\*PE14B.T9, TSM-\*\*\*PE14B.T0(II), TSM-\*\*\*PE14B.T8(II), TSM-\*\*\*PE14B.T9(II), TSM-\*\*\*PE14HB.T0, TSM-\*\*\*PE14HB.T8, TSM-\*\*\*PE14HB.T9, TSM-\*\*\*PE14HB.T0(II), TSM-\*\*\*PE14HB.T8(II), TSM-\*\*\*PE14HB.T9(II), TSM-\*\*\*PE05A.T0(II), TSM-\*\*\*PE05A.T8(II), TSM-\*\*\*PE05A.T9(II), TSM-\*\*\*PE14A.T0(II), TSM-\*\*\*PE14A.T8(II), TSM-\*\*\*PE14A.T9(II), TSM-\*\*\*PE05H.T0, TSM-\*\*\*PE05H.T8, TSM-\*\*\*PE05H.T9, TSM-\*\*\*PE05H.T0(II), TSM-\*\*\*PE05H.T8(II), TSM-\*\*\*PE05H.T9(II), TSM-\*\*\*PE14H.T0, TSM-\*\*\*PE14H.T8, TSM-



\*\*\*PD05H.T0, TSM-\*\*\*PD05H.T8, TSM-\*\*\*PD14H.T0, TSM-\*\*\*PD14H.T8, TSM-\*\*\*PD05HB.T9, TSM-\*\*\*PE15H.T0, TSM-\*\*\*PE15H.T8, TSM-\*\*\*PE15H.T9, TSM-\*\*\*PE06H.T0, TSM-\*\*\*PE06H.T8, TSM-\*\*\*PE06H.T9, TSM-\*\*\*PE06H.T0(II), TSM-\*\*\*PE06H.T8(II), TSM-\*\*\*PE06H.T9(II), TSM-\*\*\*PE15A.T0, TSM-\*\*\*PE15A.T8, TSM-\*\*\*PE15A.T9, TSM-\*\*\*PE06A.T0, TSM-\*\*\*PE06A.T0, TSM-\*\*\*PE06A.T8, TSM-\*\*\*PE06A.T9, TSM-\*\*\*PD06H.T0, TSM-\*\*\*PD06H.T8, TSM-\*\*\*PD06H.T9, TSM-\*\*\*PD15H.T0, TSM-\*\*\*PD15H.T8, TSM-\*\*\*PD15H.T9.

## b) P-type Mono PERC of Back Sheet Glass Products

- (i) TSM-\*\*\*DA01, TSM-\*\*\*DA01.05, TSM-\*\*\*DA01A, TSM-\*\*\*DA01A.05, TSM-\*\*\*DA01A.08, TSM-\*\*\*DA03, TSM-\*\*\*DA05, TSM-\*\*\*DA01A.002, TSM-\*\*\*DA01A.052, TSM-\*\*\*DA01A.082; TSM-\*\*\*DC01, TSM-\*\*\*DC01.01, TSM-\*\*\*DC01.05, TSM-\*\*\*DC01A, TSM-\*\*\*DC01A.05, TSM-\*\*\*DC01A.08, TSM-\*\*\*DC03, TSM-\*\*\*DC05, TSM-\*\*\*DC80, TSM-\*\*\*DC80.08, TSM-\*\*\*DC01A.002, TSM-\*\*\*DC01A.052, TSM-\*\*\*DC01A.082, TSM-\*\*\*DC05A, TSM-\*\*\*DC05A.05, TSM-\*\*\*DC05A.08, TSM-\*\*\*DC05A.002, TSM-\*\*\*DC05A.052, TSM-\*\*\*DC05A.082; TSM-\*\*\*DC06, TSM-\*\*\*DC06.08, TSM-\*\*\*DC03A(II), TSM-\*\*\*DC03A.05(II), TSM-\*\*\*DC03A.08(II), TSM-\*\*\*DC05A(II), TSM-\*\*\*DC05A.05(II), TSM-\*\*\*DC05A.08(II), TSM-\*\*\*DC05A.002(II), TSM-\*\*\*DC05A.052(II), TSM-\*\*\*DC05A.082(II), TSM-\*\*\*DC06.08(II); TSM-\*\*\*DD05A(II), TSM-\*\*\*DD05A.05(II), TSM-\*\*\*DD05A.08(II), TSM-\*\*\*DD14A(II), TSM-\*\*\*DD14A.08(II), TSM-\*\*\*DD05A.052(II), TSM-\*\*\*DD05A.082(II), TSM-\*\*\*DD05A.05S(II), TSM-\*\*\*DD05A.08S(II), TSM-\*\*\*DD05A.05U(II), TSM-\*\*\*DD05A.08U(II), TSM-\*\*\*DE05A (II), TSM-\*\*\*DE05A.08(II), TSM-\*\*\*DE14A(II), TSM-\*\*\*DE14A.08(II), TSM-\*\*\*DE05H(II), TSM-\*\*\*DE05H.08(II), TSM-\*\*\*DE14H(II), TSM-\*\*\*DE14H.08(II), TSM-\*\*\*DD05H(II), TSM-\*\*\*DD14H(II); TSM-\*\*\*DE06H(II), TSM-\*\*\*DE06H.08(II), TSM-\*\*\*DE06H.09(II), TSM-\*\*\*DE06M(II), TSM-\*\*\*DE06M.08(II), TSM-\*\*\*DE06M.09(II), TSM-\*\*\*DD06M.08(II), TSM-\*\*\*DE15H(II), TSM-\*\*\*DE15H.08(II), TSM-\*\*\*DE15H.09(II), TSM-\*\*\*DE15M(II), TSM-\*\*\*DE15M.08(II), TSM-\*\*\*DE15M.09(II), TSM-\*\*\*DE06A(II), TSM-\*\*\*DE06A.08(II), TSM-\*\*\*DE06A.09(II), TSM-\*\*\*DE15A(II), TSM-\*\*\*DE15A.08(II), TSM-\*\*\*DE15A.09(II), TSM-\*\*\*DD15M (II), TSM-\*\*\*DD15M.08 (II), TSM-\*\*\*DD15M.09 (II), TSM-\*\*\*DD06M (II), TSM-\*\*\*DD06H (II), TSM-\*\*\*DD06H.08 (II), TSM-\*\*\*DD15H (II), TSM-\*\*\*DD15H.05 (II), TSM-\*\*\*DD15H.08 (II), TSM-\*\*\*DE15X(II), TSM-\*\*\*PE15H(II), TSM-\*\*\*PE06H(II), TSM-\*\*\*PE15M(II), TSM-\*\*\*PE06M(II), TSM-\*\*\*PE17H(II), TSM-\*\*\*PE08H(II), TSM-\*\*\*PE17M(II), TSM-\*\*\*PE08M(II);
- (ii) TSM-\*\*\*DA01A.10, TSM-\*\*\*DA01A.15, TSM-\*\*\*DA01A.18, TSM-\*\*\*DC01A.10, TSM-\*\*\*DC01A.15, TSM-\*\*\*DC01A.18, TSM-\*\*\*DD05A.T0(II), TSM-\*\*\*DD05A.T8(II), TSM-\*\*\*DD14A.T0(II), TSM-\*\*\*DD14A.T8(II), TSM-\*\*\*DE05A.T0(II), TSM-\*\*\*DE05A.T8(II), TSM-\*\*\*DE05A.T9(II), TSM-\*\*\*DE14A.T0(II), TSM-\*\*\*DE14A.T8(II), TSM-\*\*\*DE14A.T9(II), TSM-\*\*\*DE14B.T0(II), TSM-\*\*\*DE14B.T8(II), TSM-\*\*\*DE14B.T9(II), TSM-\*\*\*DE05H.T0(II), TSM-\*\*\*DE05H.T8(II), TSM-\*\*\*DE14H.T0(II), TSM-\*\*\*DE14H.T8(II), TSM-\*\*\*DE14H.T9(II), TSM-\*\*\*DD05H.T0(II), TSM-\*\*\*DD05H.T8(II), TSM-\*\*\*DD14H.T0(II), TSM-\*\*\*DD14H.T8(II), TSM-\*\*\*DE06H.T0(II), TSM-\*\*\*DE06H.T8(II), TSM-\*\*\*DE06H.T9(II), TSM-\*\*\*DE06H.18(II), TSM-\*\*\*DE06M.T0(II), TSM-\*\*\*DE06M.T8(II), TSM-\*\*\*DE06M.T9(II), TSM-\*\*\*DD06M.T8(II), TSM-\*\*\*DE15H.T0(II), TSM-\*\*\*DE15H.T8(II), TSM-\*\*\*DE15H.T9(II), TSM-\*\*\*DE15M.T0(II), TSM-\*\*\*DE15M.T8(II), TSM-\*\*\*DE15M.T9(II), TSM-\*\*\*DE06A.T0(II), TSM-\*\*\*DE06A.T8(II), TSM-\*\*\*DE06A.T9(II), TSM-\*\*\*DE15A.T0(II), TSM-\*\*\*DE15A.T8(II), TSM-\*\*\*DE15A.T9(II), TSM-\*\*\*DE15B.T0(II), TSM-\*\*\*DE15B.T8(II), TSM-\*\*\*DE15B.T9(II), TSM-\*\*\*DD15M.T0(II), TSM-\*\*\*DD15M.T8(II), TSM-\*\*\*DD15M.T9(II), TSM-\*\*\*DD06M.18(II), TSM-\*\*\*DD06M.T0(II), TSM-\*\*\*DD06M.T8(II), TSM-

- \*\*\*DD06M.T9(II), TSM-\*\*\*DD06H.T0(II), TSM-\*\*\*DD06H.T9(II), TSM-\*\*\*DD06H.T8(II), TSM-\*\*\*DD06H.18(II), TSM-\*\*\*DD06A.T0(II), TSM-\*\*\*DD06A.T8(II), TSM-\*\*\*DD06A.T9(II), TSM-\*\*\*DD15A.T0(II), TSM-\*\*\*DD15A.T8(II), TSM-\*\*\*DD15A.T9(II), TSM-\*\*\*PE15H.T0(II), TSM-\*\*\*PE06H.T0(II), TSM-\*\*\*PE15M.T0(II), TSM-\*\*\*PE06M.T0(II), TSM-\*\*\*PE17H.T0(II), TSM-\*\*\*PE08H.T0(II), TSM-\*\*\*PE17M.T0(II), TSM-\*\*\*PE08M.T0(II);
- (iii) TSM-\*\*\*DD06M.05(II), TSM-\*\*\*DD06H.05 (II);
- (iv) TSM-\*\*\*DE08M(II), TSM-\*\*\*DE08M.08(II), TSM-\*\*\*DD08M(II), TSM-\*\*\*DD08M.08(II), TSM-\*\*\*DE17M(II), TSM-\*\*\*DD17M(II), TSM-\*\*\*DE17M.08(II), TSM-\*\*\*DD17M.08(II), TSM-\*\*\*DE18M(II) , TSM-\*\*\*DD18M(II), TSM-\*\*\*DE18M.08(II) , TSM-\*\*\*DD18M.08(II);
- (v) TSM-\*\*\*DE08M.T0(II), TSM-\*\*\*DE17M.T0(II), TSM-\*\*\*DD08M.T0(II), TSM-\*\*\*DD17M.T0(II), TSM-\*\*\*DE08M.T8(II), TSM-\*\*\*DE17M.T8(II), TSM-\*\*\*DD08M.T8(II), TSM-\*\*\*DD17M.T8(II), TSM-\*\*\*DE18M.T0(II) , TSM-\*\*\*DD18M.T0(II), TSM-\*\*\*DE18M.T8(II) , TSM-\*\*\*DD18M.T8(II).

### c) P-type Polycrystalline of Duomax Products

- (i) TSM-\*\*\*PDG5, TSM-\*\*\*PDG5.07, TSM-\*\*\*PDG5.50, TSM-\*\*\*PEG5, TSM-\*\*\*PEG5.07, TSM-\*\*\*PEG5.50, TSM-\*\*\*PEG14, TSM-\*\*\*PEG14(II), TSM-\*\*\*PEG40.40, TSM-\*\*\*PEG40.47, TSM-\*\*\*PEG40.07, TSM-\*\*\*PEG5.40, TSM-\*\*\*PEG5.47, TSM-\*\*\*PEG14.40, TSM-\*\*\*PEG14.47, TSM-\*\*\*PEG5H, TSM-\*\*\*PEG14H, TSM-\*\*\*PEG5H.40, TSM-\*\*\*PEG5H.07, TSM-\*\*\*PEG5H.47, TSM-\*\*\*PEG14H.40, TSM-\*\*\*PEG14H.07, TSM-\*\*\*PEG14H.47, TSM-\*\*\*PEG5H(II), TSM-\*\*\*PEG5H.40(II), TSM-\*\*\*PEG5H.07(II), TSM-\*\*\*PEG5H.47(II), TSM-\*\*\*PEG14H(II), TSM-\*\*\*PEG14H.40(II), TSM-\*\*\*PEG14H.07(II), TSM-\*\*\*PEG14H.47(II), TSM-\*\*\*PEG15H, TSM-\*\*\*PEG15, TSM-\*\*\*PEG15H(II), TSM-\*\*\*PEG15(II), TSM-\*\*\*PEG6H, TSM-\*\*\*PEG6, TSM-\*\*\*PEG6(II), TSM-\*\*\*PEG15M (II), TSM-\*\*\*PEG6M (II);
- (ii) TSM-\*\*\*PEG5.20, TSM-\*\*\*PEG5.27, TSM-\*\*\*PEG14.20, TSM-\*\*\*PEG5H.20, TSM-\*\*\*PEG5H.27, TSM-\*\*\*PEG14H.20, TSM-\*\*\*PEG14H.27, TSM-\*\*\*PEG5H.20(II), TSM-\*\*\*PEG5H.27(II), TSM-\*\*\*PEG14H.20(II), TSM-\*\*\*PEG14H.27(II), TSM-\*\*\*PEG15H.20, TSM-\*\*\*PEG15.20, TSM-\*\*\*PEG15H.20(II), TSM-\*\*\*PEG15.20(II), TSM-\*\*\*PEG6H.20, TSM-\*\*\*PEG6.20, TSM-\*\*\*PEG6.20(II).

### d) P-type Mono PERC of Duomax Products

- (i) TSM-\*\*\*DEG40.07(II), TSM-\*\*\*DEG5(II), TSM-\*\*\*DEG5.07(II), TSM-\*\*\*DEG14(II), TSM-\*\*\*DEG14.07(II), TSM-\*\*\*DEG40.47(II), TSM-\*\*\*DEG5.40(II), TSM-\*\*\*DEG5.47(II), TSM-\*\*\*DEG14.40(II), TSM-\*\*\*DEG14.47(II), TSM-\*\*\*DEG5H(II), TSM-\*\*\*DEG14H(II), TSM-\*\*\*DEG5H(II), TSM-\*\*\*DEG5H.40(II), TSM-\*\*\*DEG5H.07(II), TSM-\*\*\*DEG5H.47(II), TSM-\*\*\*DEG14H(II), TSM-\*\*\*DEG14H.40(II), TSM-\*\*\*DEG14H.07(II), TSM-\*\*\*DEG14H.47(II), TSM-\*\*\*DEG6H(II), TSM-\*\*\*DEG6M(II), TSM-\*\*\*DDG6M(II), TSM-\*\*\*DEG15H(II), TSM-\*\*\*DEG15M(II), TSM-\*\*\*DDG6H(II), TSM-\*\*\*DEG6(II), TSM-\*\*\*DEG15(II);
- (ii) TSM-\*\*\*DEG14.20(II), TSM-\*\*\*DEG5.20(II), TSM-\*\*\*DEG5.27(II), TSM-\*\*\*DEG5H.20(II), TSM-\*\*\*DEG5H.27(II), TSM-\*\*\*DEG14H.20(II), TSM-\*\*\*DEG14H.27(II), TSM-\*\*\*DEG6H.20(II), TSM-\*\*\*DEG6M.20(II), TSM-\*\*\*DEG15H.20(II), TSM-\*\*\*DEG15M.20(II), TSM-\*\*\*DDG6M.20(II), TSM-\*\*\*DDG6H.20(II), TSM-\*\*\*DEG6.20(II), TSM-\*\*\*DEG15.20(II);
- (iii) TSM-\*\*\*DEG8M.20(II), TSM-\*\*\*DEG17M.20 (II), TSM-\*\*\*DEG18M.20 (II).

### e) P-type Mono PERC of Duomax Twin Products



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- (i) TSM-\*\*\*DEG5C.07(II), TSM-\*\*\*DEG14C.07(II), TSM-\*\*\*DEG5C(II), TSM-\*\*\*DEG14C(II), TSM-\*\*\*DEG5HC(II), TSM-\*\*\*DEG5HC.07(II), TSM-\*\*\*DEG14HC(II), TSM-\*\*\*DEG14HC.07(II), TSM-\*\*\*DEG15HC(II), TSM-\*\*\*DEG15MC(II), TSM-\*\*\*DEG6HC(II), TSM-\*\*\*DEG6MC(II), TSM-\*\*\*DEG15C(II), TSM-\*\*\*DEG15C.07(II);
- (ii) TSM-\*\*\*DEG5C.27(II), TSM-\*\*\*DEG14C.27(II), TSM-\*\*\*DEG5C.20(II), TSM-\*\*\*DEG14C.20(II), TSM-\*\*\*DEG5HC.20(II), TSM-\*\*\*DEG5HC.27(II), TSM-\*\*\*DEG14HC.20(II), TSM-\*\*\*DEG14HC.27(II), TSM-\*\*\*DEG15HC.20(II), TSM-\*\*\*DEG15MC.20(II), TSM-\*\*\*DEG6HC.20(II), TSM-\*\*\*DEG6MC.20(II), TSM-\*\*\*DEG6C.20(II), TSM-\*\*\*DEG6C.20(II), TSM-\*\*\*DEG15C(II), TSM-\*\*\*DEG15C.20(II), TSM-\*\*\*DEG15MC.27(II);
- (iii) TSM-\*\*\*DEG8MC.20 (II), TSM-\*\*\*DEG17MC.20(II) , TSM-\*\*\*DEG18MC.20 (II) ,

## f) N-type Mono of Duomax Twin Products

- (i) TSM-\*\*\*NEG16MC(II), TSM-\*\*\*NEG7MC(II);
- (ii) TSM-\*\*\*NEG15MC.20(II), TSM-\*\*\*NEG16MC.20(II), TSM-\*\*\*NEG7MC.20(II), TSM-\*\*\*NEG15XC.20(II).

Note: The "\*\*\*\*" placeholder stands in each case for the power indication set out in the relevant Product Data Sheet (for example "TSM-285PE06H").

## 2) Rules of use and application for Products listed under Sec. 1)

Trina Solar has set out certain rules of use and application for the Products (please see Appendix: "Rules of application for climatic modules") to ensure the functionality, durability and performance under different climatic circumstances.

Only for Products listed under Sec. 1) c), d), e), f) can be installed on water surface floating systems;

For Products not used in accordance with the rules determined in this Appendix, Trina Solar will not undertake this limited Warranty. Any consequences, risks, losses or damages caused by any violations of the Buyer to the "Rules of application for climatic modules" shall be borne by the Buyer solely.

	Environment	Temperature	Relative Humidity	Irradiance kwh/m2
1)	High temperature and high humidity area	Annual average temperature > 23°C  Monthly minimum temperature > 18°C	Annual average RH > 70%  Monthly minimum average RH > 60%	/



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2)	High temperature difference and high irradiation area	Desert and gobi region	/	> 1800
3)	Gelid area (Low irradiation)	< -10°C (Monthly minimum temperature)	/	< 1400
4)	Normal	Not listed in Nr. 1 to 3 before		

## 3) Warranty

### a) 10 Year Limited Product Warranty

For the Products listed under Sec. 1) c) (i), d) (i), e) (i), f) (i) Trina Solar warrants that for a period of ten years commencing on the Warranty Start Date (as defined in Sec. 4)) there will be no defects in material workmanship or manufacture that materially impede the power generation functioning of the Products.

This Limited Product Warranty covers glass breakage provided that there was no external cause of breakage (i.e. only breakage caused by the glass itself or the module is covered).

Any deterioration in the appearance of the Products (including, without limitation, any scratches, stains, mechanical wear, rust, mold, deformation or discoloration) or any other changes to the Products which occur after delivery (Incoterms 2020) to the Buyer, do not constitute a defect under this Limited Product Warranty.

### b) 12 Year Limited Product Warranty

For the Products listed under Sec.1) a), b), c) (ii), d) (ii), (iii), e) (ii), (iii), f) (ii) Trina Solar warrants that for a period of twelve years commencing on the Warranty Start Date (as defined in Sec. 4)) there will be no defects in material, workmanship or manufacture that materially impede the power generation functioning of the Products.

This Limited Product Warranty covers glass breakage provided that there was no external cause of breakage (i.e. only breakage caused by the glass itself or the module is covered).

Any deterioration in the appearance of the Products (including, without limitation, any scratches, stains, mechanical wear, rust, mold, deformation or discoloration) or any other changes to the Products which occur after delivery (Incoterms 2020) to the Buyer, do not constitute a defect under this Limited Product Warranty.

### c) 25 Year Limited Power Output Warranty for Back Sheet Glass Products

In addition, for the Products listed under Sec.1) a), b) Trina Solar warrants that for a period of twenty-five years commencing on the Warranty Start Date (as defined in Sec. 4)) the loss of power output relating to the initial guaranteed power which is defined as Peak Power Watts P<sub>max</sub>(Wp) plus Peak Power Watts P<sub>max</sub>(Wp) multiplied by the lower limit of the Power Output Tolerance P<sub>max</sub>(%) – as



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specified in the relevant Product Data Sheet and measured at Standard Test Conditions (STC: irradiation 1000w/m<sup>2</sup>, temperature 25°C, AM 1.5) for the Products shall not exceed and measurement shall either be carried out by Trina Solar or by a third-party testing institute recognized by Trina Solar and the Buyer:

- for P-type Poly Products (as defined in Sec. 1) a)): 2.5% in the first year; from the 2nd year to the 25th year, the average annual power decline will be no more than 0.65%; by the end of the 25th year, the actual power output will be no less than 81.9%;
- for P-type Mono PERC Products (as defined in Sec. 1) b) (i), (ii), (iii)): 2.5% in the first year; from the 2nd year to the 25th year, the average annual power decline will be no more than 0.6%; by the end of the 25th year, the actual power output will be no less than 83.1%.
- for P-type Mono PERC Products (as defined in Sec. 1) b) (iv), (v)): 2 % in the first year; from the 2nd year to the 25th year, the average annual power decline will be no more than 0.55 %; by the end of the 25th year, the actual power output will be no less than 84.8 %;

(Remark: According to STC, measurement system uncertainty should be included in all actual power output measurements.)

**d) 30 Year Limited Power Output Warranty for Dual Glass Products**

In addition, for the Products listed under Sec.1) c), d) and the front side (without J-Box) of the Products listed under Sec. 1) e), f) Trina Solar warrants that for a period of thirty years commencing on the Warranty Start Date (as defined in Sec. 4)) the loss of power output relating to the initial guaranteed power which is defined as Peak Power Watts P<sub>max</sub>(W<sub>p</sub>) plus Peak Power Watts P<sub>max</sub>(W<sub>p</sub>) multiplied by the lower limit of the Power Output Tolerance P<sub>max</sub>(%) – as specified in the relevant Product Data Sheet and measured at Standard Test Conditions (STC: irradiation 1000w/m<sup>2</sup>, temperature 25°C, AM 1.5) for the Products shall not exceed and measurement shall either be carried out by Trina Solar or by a third-party testing institute recognized by Trina Solar and the Buyer:

- for P-type Poly Duomax Products (as defined in Sec. 1) c), for P-type Mono PERC Duomax Products (as defined in Sec. 1) d) (i), (ii), for the front side (without J-Box) of P-type Mono PERC Duomax Twin Products (as defined in Sec.1) e) (i) (ii)): 2.5 % in the first year; from the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%; by the end of the 30th year, the actual power output will be no less than 83%;
- for P-type Mono PERC Duomax Products (as defined in Sec. 1) d) (iii), for the front side (without J-Box) of P-type Mono PERC Duomax Twin Products (as defined in Sec.1) e) (iii)): 2 % in the first year; from the 2nd year to the 30th year, the average annual power decline will be no more than 0.45 %; by the end of the 30th year, the actual power output will be no less than 85 %;
- for the front side (without J-Box) of N-type Mono Duomax Twin Products (as defined in Sec.1) f)): 1.5% in the first year; from the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%; by the end of the 30th year, the actual power output will be no less than 84%.

(Remark: According to STC, measurement system uncertainty should be included in all actual power output measurements.)



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### 4) Warranty Start Date

The Warranty Start Date is the date of installation of the Products or three months after the delivery (Incoterms 2020) of the Products to the Buyer, whichever date is earlier.

### 5) Exclusions and Limitations

This limited Warranty does not apply to any Products which have been subject to:

- a) Failure to pay the purchase price towards Trina Solar or its subsidiaries which have put the module on the market even though (i) the payment was due and (ii) the direct customer who has obtained the module from Trina Solar or its subsidiary („Direct Customer“) is not entitled to withhold the purchase price or parts of the purchase price. Trina Solar must inform the Buyer about the non-payment and provide the name and the full address of the Direct Customer which has failed to pay the module. In case that Trina Solar can reject the claims under this limited Warranty based on this provision, the Buyer can deposit the amount not paid in order to trigger the limited Warranty claims;
- b) Failure to provide proof of purchase or product information;
- c) Failure to comply with the requirements of Trina Solar's user manual or rules of use and application for the Products (as defined in Sec. 2) and Appendix;
- d) Failure to carry out proper operation and maintenance (including but not limited to operation and maintenance requirements requested by Trina Solar's applicable user manual or other applicable local laws and regulations of the place of installation);
- e) Service by service technicians who are not qualified under the relevant law and/or applicable regulations at the place of installation;
- f) Change, erasure or illegible-made of the Product's type, nameplate or serial number (other than by any act or omission of Trina Solar);
- g) Installation on mobile units (except photovoltaic tracking system), such as vehicles, ships or offshore-structures(except water surface floating systems pursuant to Sec 2) ;
- h) Exposure to voltage in excess to the maximum system voltage or power surges;
- i) defective components in the construction on which the module is mounted;
- j) Exposure to mold discoloration or similar external effects;
- k) unauthorized modifications:
  - i) Operation/maintenance by use of unauthorized spare parts;
  - ii) Application under extreme environmental conditions or rapid changes in such environments resulting in corrosion, oxidation, or affected by chemical products;
  - iii) Other acts beyond Trina Solar's reasonable control (including direct or indirect damage by war, fire, flood, hurricane, volcanic eruption, surface collapse, debris flow, lightning, earthquake, heavy snowfall, hailstone, strong breeze etc.);
- l) Use of the Products in such a manner as to infringe Trina Solar's or any third party's intellectual property rights (including but not limited to patents, trademarks, etc.);
- m) Any subsequent sale of the Products from a country where Trina Solar was first marketed to another country without the consent of Trina Solar ("Prohibition of Parallel Import"). But the Prohibition of Parallel Import does not apply to the sales within the European Union ("EU"), where the sale of Products from one EU country to another does not require the consent of Trina Solar. However, the consent of Trina Solar must be obtained for the sale of Products from outside the EU to an EU country or from an EU country to outside the EU.
- n) only for Buyers located in Australia applies: This limited Warranty is only valid for Products from authorized Australian resellers. Buyers may contact the Customer Support office in their region (as detailed in Sec. 8)) for details of authorized Australian resellers.





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- o) only for Buyers located in the US applies: This limited Warranty is only valid for Products from authorized US resellers. Buyers may contact the Customer Support office in their region (as detailed in Sec. 8)) for details of authorized US resellers.
- p) only for Buyers located in Japan applies: This limited Warranty is only valid for Products from authorized Japanese resellers. Buyers may contact the Customer Support office in their region (as detailed in Sec. 8)) for details of authorized Japanese resellers.

### 6) Repair, Replacement or Refund Remedy

- a) As Buyer's sole and exclusive remedy under this limited Warranty (though the Buyer should note Sec. 6) d) regarding the potential existence of other statutory rights and Sec. 6 e) for Australian Buyers) Trina Solar will, at its sole discretion, either, with regard to the applicable Products:
  - (i) determine a maintenance plan and repair the defective Products; or
  - (ii) refund the difference value between the actual STC power and the warranty power of the defective products (Difference value = The market price at the moment of raising limited Warranty claims (per watt) \* (sum of the remaining theoretical warranty power according to Sec. 3) c), d) - sum of STC power actually measured according to Sec. 3) c), d)); or
  - (iii) refund the salvage value of the defective Products. For purposes of this limited Warranty salvage value = The market price at the moment of raising warranty claim (unit price per watt) \* the original guaranteed nameplate power \* remaining warranty period (year) / original total warranty period by Trina Solar; or
  - (iv) provide free Products to make up for the difference between the actual STC power of defective Products and the warranty power (Difference power = sum of the remaining theoretical warranty power according to Sec. 3) c), d) - sum of STC power actually measured according to Sec. 3) c), d)); or
  - (v) replace the defective Products or part thereof by new or remanufactured Products at no charge. The total nominal power of the replaced Products shall not be less than the total remaining theoretical warranty power of the defective Products. Trina Solar reserves the right to provide similar Products in replacement of the defective Products if the defective Products are discontinued or otherwise unavailable.

During the warranty period of Sec. 3) a) and b), in the event that Trina Solar opts for option under Sec. 6) a) (i), Trina Solar shall bear the costs for repairing and all reasonable insurance and transportation charges (except air freight), customs clearance and any other reasonable costs for shipping the repaired Products to the Buyer (the Buyer may claim reimbursement by Trina Solar for these charges by providing an invoice from the relevant service provider to Trina Solar that these charges were incurred). The costs and other related expenses for the removal, repack, installation or reinstallation shall remain with the Buyer. Beyond the warranty period of Sec. 3) a) and b), Buyer shall bear all reasonable costs of materials, labor, freight, clearance, removal, repack, installation or reinstallation whatsoever related to repairing.

In the event that Trina Solar opts for option under Sec. 6) a) (iv), (v), Trina Solar shall bear all reasonable insurance and transportation charges (except air freight), customs clearance and any other reasonable costs for shipping the replaced Products to the Buyer (the Buyer may claim reimbursement by Trina Solar for these charges by providing an invoice from the relevant service provider to Trina Solar that these charges were incurred). The costs and other related expenses for the removal, repack, installation or reinstallation shall remain with the Buyer.



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Defect Products or end of lifetime Products shall be disposed if legally permissible by the Buyer in accordance with local applicable laws or regulations, unless Trina Solar agrees or where legally mandatory takes them back. If Trina Solar decides or where legally mandatory takes the defective products back, the goods property of these products shall belong to Trina Solar without any limitation.

- b) The limited Warranty periods as defined in Sec. 3) a), b), c), d) shall not extend or renew upon the repair or replacement of defective Products by Trina Solar. The limited Warranty period for replaced or repaired Products is the remainder of the limited Warranty period on the original new Products.
- c) All other claims under this limited Warranty against Trina Solar shall be excluded. Under this limited Warranty, Trina Solar is not responsible for any special, incidental or consequential damages (including loss of profits, business interruption, loss of power generation, harm to goodwill or business reputation, or delay damages) whether such claims are based in contract, warranty, negligence or strict tort. This exclusion applies to the extent permissible by law, and even if the remedies set forth below herein are deemed to have failed of their essential purpose.
- d) YOU MAY HAVE SPECIFIC LEGAL RIGHTS OUTSIDE THIS LIMITED WARRANTY, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. THIS LIMITED WARRANTY DOES NOT AFFECT ANY ADDITIONAL RIGHTS YOU HAVE UNDER LAWS IN YOUR JURISDICTION GOVERNING THE SALE OF CONSUMER GOODS, INCLUDING WITHOUT LIMITATION, NATIONAL LAWS IMPLEMENTING EC DIRECTIVE 99/44 OR PURSUANT TO THE MAGNUSON MOSS WARRANTY ACT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THIS LIMITED WARRANTY STATEMENT MAY NOT APPLY.
- e) The following statement applies to Buyers that are "Consumers" within the meaning of the Australian Consumer Law:

"Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."

### 7) Rights and Remedies against Third Parties

This limited Warranty shall be construed as a separate warranty and independent from any other contractual arrangement with third parties relating to the Products. It shall not affect any rights, obligations and remedies of the Buyer, if any, with regard to third parties for defects or non-conformity or non-compliance of the Products, notwithstanding its legal basis. The rights and remedies provided hereunder are in addition to any other rights and remedies against third parties to which the Buyer may be entitled by agreements with such third parties or by law.

### 8) Claims Procedure, Notice Periods, Expiration of Limited Warranty Claims and Limitations.

- a) The Buyer shall notify Trina Solar under this limited Warranty using Trina Solar's Customer Service Portal at the web address <http://customerservice.trinasolar.com>; alternatively by letter or facsimile. The notification shall specify the claim and, without limitation, include proof for the purchase (purchasing invoices indicating purchase date, Products, serial numbers) and for the defect or malfunction (i.e. related to transport, storage, installation and operation) of the Products. The contact customer support center for the regions are:





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**Europe Customer Support**

Trina Solar (Schweiz) AG  
Birkenweg 4  
8304 Wallisellen, Switzerland  
T +41 43 299 68 00  
F +41 43 299 68 10  
<http://customerservice.trinasolar.com>

**Americas Customer Support**

Trina Solar (U.S.), Inc.  
100 Century Center, Suite 501,  
San Jose CA 95112, USA  
T +1 800 696 7114  
F +1 800 696 0166  
<http://customerservice.trinasolar.com>

**Australia and New Zealand Customer Support**

Trina Solar (Australia) Pty Ltd  
Level 35, 60 Margaret Street,  
Sydney NSW 2000, Australia  
T +61 (0)2 9199 8500  
F +61 2 9199 8006  
<http://customerservice.trinasolar.com>

**Japan Customer Support**

Trina Solar (Japan) Limited  
World Trade Center Building 21F  
4-1, Hamamatsu-cho, 2-chome,  
Minato-ku, Tokyo, Japan, 105-6121  
T +81-3-3437-7000  
F +81-3-3437-7001  
<http://customerservice.trinasolar.com>

**Rest of World (ROW) Customer Support**

Trina Solar Co.,Ltd  
No. 2 Trina Road, Trina PV Industrial Park,  
New District, Changzhou, Jiangsu,  
P.R. China, 213031  
T +86 519 8548 2008  
F +86 519 8517 6021  
<http://customerservice.trinasolar.com>

- b) Any dispute on technical facts relating to claims brought under this limited Warranty for defects of Products shall be determined by expert determination. Trina Solar and the Buyer will, at the Buyer's or Trina Solar's request, jointly appoint as independent expert and appraiser a reputable researcher from a first-class test-institute such as Fraunhofer ISE in Freiburg, TÜV Rheinland, TÜV SÜD or ASU Arizona State University, and so on ("Technical Expert"). The determination by such Technical Expert shall be final, conclusive, binding and enforceable in any proceeding brought hereunder. The Technical Expert shall (i) act as an expert recognized by Trina Solar; (ii) allow the parties a reasonable opportunity to make representations and counter-representations; (iii) take those representations and counter-representations into account; and (iv) if required by either party give written reasons for his or her determination.
- c) Any claim for breach of this limited Warranty must be brought within two (2) months after discovery of the breach.
- d) The return of any defective Products will not be accepted unless prior written authorization has been given by Trina Solar.

**9) Force Majeure**

Trina Solar shall not be responsible or liable in any way to the Buyer for any non-performance or delay in Trina Solar's performance under this limited Warranty due to occurrences of force majeure such as war, riots, strikes, unavailability of suitable and sufficient labor, material, or capacity or technical or yield failures



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and any unforeseen event beyond its control, including, without limitation, any technological or physical event or condition which is not reasonably known or understood at the time of the sale of the defective Products or the notification of the relevant limited Warranty claim under this limited Warranty.

### 10) Warranty Assignment

This limited Warranty is transferrable when the Products remain installed in their original installation location.

### 11) Validity

This limited Warranty shall apply to Products delivered to the Buyer on or after 1<sup>st</sup> of May 2020 (Incoterms 2020). This limited Warranty shall be valid until a new revision is issued by Trina Solar.

### 12) No Other Express Warranty

Except as otherwise provided by applicable statutory law (cf. Sec. 6) d) and 6 e)) or unless modified in writing and signed by an officer of Trina Solar, the limited Warranty set forth herein is the only express warranty (whether written or oral) by Trina Solar applicable to the Products and no one is authorized to restrict, expand or otherwise modify this limited Warranty.

### 13) Miscellaneous

If any provision of this limited Warranty is held invalid, unenforceable or contrary to law then the validity of the remaining provisions of this limited Warranty shall remain in full force and effect.

### 14) Limitation of Liability

To the maximum extent permitted by applicable law, Trina Solar's aggregate liability according to this limited Warranty shall not exceed the purchase price paid by the Buyer for the defective Products in the case of a limited Warranty claim. The Buyer acknowledges that the foregoing limitation of liability is an essential element of this limited Warranty and that in the absence of such limitations the purchase price of the Products would be significantly higher.

### 15) Applicable Law and Jurisdiction

The validity of this limited Warranty, the construction of its terms and the interpretation and enforcement of the rights and duties of the Buyer and Trina Solar shall be governed by the laws of the country of the original installation location of the Products, to the exclusion of that country's conflicts of law rules as well as of the United Nations Convention on the International Sale of Goods dated 11 April 1980 (CISG) and of any other uniform law.

All disputes arising out of or in connection with this limited Warranty shall be finally settled before the ordinary courts of the country of the original installation location of the Products.

### Note

The installation and operation of photovoltaic modules requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using and operating the Products (<http://www.trinasolar.com/en-glb/resources/downloads>).

Appendix: "Rules of application for Trina modules"

If the place of the installed Products is not listed in the following list of countries, states and provinces, please contact the competent contact customer support center (as stated in Sec. 8) a)) which shall timely feedback to Trina Solar headquarters PM. Then, Trina Solar headquarters PM shall work with engineering



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center and quality control team to confirm the corresponding product or material type and update the database.

Region	SN	Country/state/province	climate type	Applicable Products listed under Sec. 1
Africa	1	Ghana	High temperature and high humidity	(c), (d), (e), (f)
	2	Mauritius	High temperature and high humidity	(c), (d), (e), (f)
	3	Nigeria	High temperature and high humidity	(c), (d), (e), (f)
	4	Sierra Leone	High temperature and high humidity	(c), (d), (e), (f)
	5	Central African Republic	High temperature and high humidity	(c), (d), (e), (f)
	6	Namibia	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	7	Algeria	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	8	Tunisia	Normally	(a), (b), (c), (d), (e), (f)
	9	Egypt	Normally	(a), (b), (c), (d), (e), (f)
	10	Djibouti	Normally	(a), (b), (c), (d), (e), (f)
	11	Kenya	Normally	(a), (b), (c), (d), (e), (f)
	12	Morocco	Normally	(a), (b), (c), (d), (e), (f)
	13	South Africa	Normally	(a), (b), (c), (d), (e), (f)
	14	Senegal	Normally	(a), (b), (c), (d), (e), (f)
	15	Tanzania	Normally	(a), (b), (c), (d), (e), (f)
	16	Malawi	Normally	(a), (b), (c), (d), (e), (f)
	17	Zimbabwe	Normally	(a), (b), (c), (d), (e), (f)
	18	Ethiopia	Normally	(a), (b), (c), (d), (e), (f)
	19	Zambia	Normally	(a), (b), (c), (d), (e), (f)
	20	Eritrea	Normally	(a), (b), (c), (d), (e), (f)
	21	Burkina Faso	Normally	(a), (b), (c), (d), (e), (f)
	22	Rwanda	Normally	(a), (b), (c), (d), (e), (f)
	23	Mozambique	High temperature and high humidity	(c), (d), (e), (f)
	24	Botswana	Normally	(a), (b), (c), (d), (e), (f)



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25	Angola	High temperature and high humidity	(c), (d), (e), (f)
26	Mali	Normally	(a), (b), (c), (d), (e), (f)
27	Uganda	High temperature and high humidity	(c), (d), (e), (f)
28	Chad	Normally	(a), (b), (c), (d), (e), (f)
29	Mauritania	Normally	(a), (b), (c), (d), (e), (f)
30	Cote d'Ivoire	High temperature and high humidity	(c), (d), (e), (f)
31	Guinea	Normally	(a), (b), (c), (d), (e), (f)
32	Niger	Normally	(a), (b), (c), (d), (e), (f)
33	Madagascar	High temperature and high humidity	(c), (d), (e), (f)
34	Burundi	High temperature and high humidity	(c), (d), (e), (f)
35	Liberia	Normally	(a), (b), (c), (d), (e), (f)
36	Guinea-Bissau	Normally	(a), (b), (c), (d), (e), (f)
37	Benin	High temperature and high humidity	(c), (d), (e), (f)
38	Togo	High temperature and high humidity	(c), (d), (e), (f)
39	Swaziland	Normally	(a), (b), (c), (d), (e), (f)
40	Libya	Normally	(a), (b), (c), (d), (e), (f)
41	Lesotho	Normally	(a), (b), (c), (d), (e), (f)
42	Cape Verde	High temperature and high humidity	(c), (d), (e), (f)
43	Seychelles	High temperature and high humidity	(c), (d), (e), (f)
44	Gambia	Normally	(a), (b), (c), (d), (e), (f)
45	Comoros	High temperature and high humidity	(c), (d), (e), (f)
46	Sudan	Normally	(a), (b), (c), (d), (e), (f)
47	Somalia	Normally	(a), (b), (c), (d), (e), (f)
48	Sao Tome and Principe	Normally	(a), (b), (c), (d), (e), (f)
49	Democratic Republic of Congo	High temperature and high humidity	(c), (d), (e), (f)
50	Congo	High temperature and high humidity	(c), (d), (e), (f)



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	51	South Sudan	Normally	(a), (b), (c), (d), (e), (f)
	52	Equatorial Guinea	High temperature and high humidity	(c), (d), (e), (f)
	53	Gabon	High temperature and high humidity	(c), (d), (e), (f)
ROA	1	Philippines	High temperature and high humidity	(c), (d), (e), (f)
	2	Cambodia	High temperature and high humidity	(c), (d), (e), (f)
	3	Maldives	High temperature and high humidity	(c), (d), (e), (f)
	4	Malaysia	High temperature and high humidity	(c), (d), (e), (f)
	5	Myanmar	High temperature and high humidity	(c), (d), (e), (f)
	6	Sri Lanka	High temperature and high humidity	(c), (d), (e), (f)
	7	Solomon Islands	High temperature and high humidity	(c), (d), (e), (f)
	8	Thailand	High temperature and high humidity	(c), (d), (e), (f)
	9	Singapore	High temperature and high humidity	(c), (d), (e), (f)
	10	Indonesia	High temperature and high humidity	(c), (d), (e), (f)
	11	Viet Nam	High temperature and high humidity	(c), (d), (e), (f)
	12	Bengal	High temperature and high humidity	(c), (d), (e), (f)
	13	Pakistan	Normally	(a), (b), (c), (d), (e), (f)
	14	Korea, Republic of	Normally	(a), (b), (c), (d), (e), (f)
	15	Mongolia	Normally	(a), (b), (c), (d), (e), (f)
	16	Nepal	Normally	(a), (b), (c), (d), (e), (f)
	17	New Zealand	Normally	(a), (b), (c), (d), (e), (f)
	18	Hong Kong	Normally	(a), (b), (c), (d), (e), (f)
ME	1	United Arab Emirates	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	2	Oman	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)



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	3	Bahrain	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	4	Saudi Arabia	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	5	Yemen	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	6	Iraq	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	7	Israel	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	8	Lebanon	Normally	(a), (b), (c), (d), (e), (f)
	9	Palestine	Normally	(a), (b), (c), (d), (e), (f)
	10	Jordan	Normally	(a), (b), (c), (d), (e), (f)
	11	Kuwait	Normally	(a), (b), (c), (d), (e), (f)
	12	Qatar	Normally	(a), (b), (c), (d), (e), (f)
Aus	1	North coast of Australia	High temperature and high humidity	(c), (d), (e), (f)
	2	Queensland	High temperature and high humidity	(c), (d), (e), (f)
	3	the State of Victoria	Normally	(a), (b), (c), (d), (e), (f)
	4	Australian capital territory	Normally	(a), (b), (c), (d), (e), (f)
	5	New South Wales	Normally	(a), (b), (c), (d), (e), (f)
	6	western australia	Normally	(a), (b), (c), (d), (e), (f)
	7	Tasmania	Normally	(a), (b), (c), (d), (e), (f)
EU	1	Norway	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	2	Sweden	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	3	Finland	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	4	Denmark	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	5	Ukraine	Normally	(a), (b), (c), (d), (e), (f)
	6	Germany	Normally	(a), (b), (c), (d), (e), (f)
	7	France	Normally	(a), (b), (c), (d), (e), (f)
	8	Georgia	Normally	(a), (b), (c), (d), (e), (f)



Trina Solar Co.,Ltd

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	9	Netherlands	Normally	(a), (b), (c), (d), (e), (f)
	10	Netherlands Antilles	Normally	(a), (b), (c), (d), (e), (f)
	11	Portugal	Normally	(a), (b), (c), (d), (e), (f)
	12	Switzerland	Normally	(a), (b), (c), (d), (e), (f)
	13	Turkey	Normally	(a), (b), (c), (d), (e), (f)
	14	Spain	Normally	(a), (b), (c), (d), (e), (f)
	15	Greece	Normally	(a), (b), (c), (d), (e), (f)
	16	Slovakia	Normally	(a), (b), (c), (d), (e), (f)
	17	Hungary	Normally	(a), (b), (c), (d), (e), (f)
	18	Luxembourg	Normally	(a), (b), (c), (d), (e), (f)
	19	Malta	Normally	(a), (b), (c), (d), (e), (f)
	20	Czech Republic	Normally	(a), (b), (c), (d), (e), (f)
	21	Poland	Normally	(a), (b), (c), (d), (e), (f)
	22	Bosnia and Herzegovina	Normally	(a), (b), (c), (d), (e), (f)
	23	Belgium	Normally	(a), (b), (c), (d), (e), (f)
	24	Austria	Normally	(a), (b), (c), (d), (e), (f)
	25	Estonia	Normally	(a), (b), (c), (d), (e), (f)
	26	Ireland	Normally	(a), (b), (c), (d), (e), (f)
	27	New Caledonia	Normally	(a), (b), (c), (d), (e), (f)
	28	United Kingdom	Normally	(a), (b), (c), (d), (e), (f)
	29	Italy	Normally	(a), (b), (c), (d), (e), (f)
	30	Curacao Island	High temperature and high humidity	(c), (d), (e), (f)
India	1	Calcutta	High temperature and high humidity	(c), (d), (e), (f)
	2	Telangana	Normally	(a), (b), (c), (d), (e), (f)
	3	Andhra pradesh	Normally	(a), (b), (c), (d), (e), (f)
	4	Tripura	Normally	(a), (b), (c), (d), (e), (f)
	5	Kerala	Normally	(a), (b), (c), (d), (e), (f)
	6	Rajasthan	Normally	(a), (b), (c), (d), (e), (f)
	7	West Bengal	Normally	(a), (b), (c), (d), (e), (f)
	8	maharashtra	Normally	(a), (b), (c), (d), (e), (f)
	9	uttar pradesh	Normally	(a), (b), (c), (d), (e), (f)



Trina Solar Co.,Ltd

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	10	Tamil Nadu	Normally	(a), (b), (c), (d), (e), (f)
	11	Gujarat	Normally	(a), (b), (c), (d), (e), (f)
	13	karnataka	Normally	(a), (b), (c), (d), (e), (f)
	14	Madhya pradesh	Normally	(a), (b), (c), (d), (e), (f)
	16	Punjab	Normally	(a), (b), (c), (d), (e), (f)
	17	Haryana	Normally	(a), (b), (c), (d), (e), (f)
	18	Delhi	Normally	(a), (b), (c), (d), (e), (f)
	19	Bihar	Normally	(a), (b), (c), (d), (e), (f)
	20	Orissa	Normally	(a), (b), (c), (d), (e), (f)
	21	Jharkhand	Normally	(a), (b), (c), (d), (e), (f)
	23	Chhattisgarh	Normally	(a), (b), (c), (d), (e), (f)
	24	state of Jammu & Kashmir	Normally	(a), (b), (c), (d), (e), (f)
	25	Uttarakhand	Normally	(a), (b), (c), (d), (e), (f)
	26	Himachal pradesh	Normally	(a), (b), (c), (d), (e), (f)
	27	Goa	Normally	(a), (b), (c), (d), (e), (f)
	28	Manipur	Normally	(a), (b), (c), (d), (e), (f)
	29	Meghalaya	Normally	(a), (b), (c), (d), (e), (f)
	30	Nagaland	Normally	(a), (b), (c), (d), (e), (f)
	31	Mizoram	Normally	(a), (b), (c), (d), (e), (f)
	32	The state of punjab	Normally	(a), (b), (c), (d), (e), (f)
JPN	1	Hokkaido	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	2	Except Hokkaido	Normally	(a), (b), (c), (d), (e), (f)
LAC	1	Barbados	High temperature and high humidity	(c), (d), (e), (f)
	2	Panama	High temperature and high humidity	(c), (d), (e), (f)
	3	Tropical rainforest area of northern Brazil	High temperature and high humidity	(c), (d), (e), (f)
	4	Dominican Republic	High temperature and high humidity	(c), (d), (e), (f)
	5	Colombia	High temperature and high humidity	(c), (d), (e), (f)
	6	Costa Rica	High temperature and high humidity	(c), (d), (e), (f)





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	7	Guyana	High temperature and high humidity	(c), (d), (e), (f)
	8	Haiti	High temperature and high humidity	(c), (d), (e), (f)
	9	Honduras	High temperature and high humidity	(c), (d), (e), (f)
	10	Martinique	High temperature and high humidity	(c), (d), (e), (f)
	11	Peru	High temperature and high humidity	(c), (d), (e), (f)
	12	Argentina	Normally	(a), (b), (c), (d), (e), (f)
	13	Mexico	Normally	(a), (b), (c), (d), (e), (f)
	14	Nicaragua	Normally	(a), (b), (c), (d), (e), (f)
	15	El Salvador	Normally	(a), (b), (c), (d), (e), (f)
	16	Uruguay	Normally	(a), (b), (c), (d), (e), (f)
	17	Jamaica	Normally	(a), (b), (c), (d), (e), (f)
	18	Chile	Normally	(a), (b), (c), (d), (e), (f)
	19	Brazil(Except tropical rainforest area of northern)	Normally	(a), (b), (c), (d), (e), (f)
	20	La Joya	Normally	(a), (b), (c), (d), (e), (f)
	21	Bolivia	Normally	(a), (b), (c), (d), (e), (f)
	22	The Republic of Guatemala	High temperature and high humidity	(c), (d), (e), (f)
CHN	1	Hainan	High temperature and high humidity	(c), (d), (e), (f)
	2	Inner Mongolia	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	3	Sinkiang	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	4	Tibet	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	5	Golmud	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	6	Gansu	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	7	Heilongjiang	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)



Trina Solar Co.,Ltd

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	8	Jilin	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
	9	Anhui	Normally	(a), (b), (c), (d), (e), (f)
	10	Hebei	Normally	(a), (b), (c), (d), (e), (f)
	11	Jiangsu	Normally	(a), (b), (c), (d), (e), (f)
	12	Fujian	Normally	(a), (b), (c), (d), (e), (f)
	13	Yunnan	Normally	(a), (b), (c), (d), (e), (f)
	14	Szechwan	Normally	(a), (b), (c), (d), (e), (f)
	15	Ningxia	Normally	(a), (b), (c), (d), (e), (f)
	16	Guizhou	Normally	(a), (b), (c), (d), (e), (f)
	17	Shanxi	Normally	(a), (b), (c), (d), (e), (f)
	18	Henan	Normally	(a), (b), (c), (d), (e), (f)
	19	Hubei	Normally	(a), (b), (c), (d), (e), (f)
	20	Hunan	Normally	(a), (b), (c), (d), (e), (f)
	21	Guangdong	Normally	(a), (b), (c), (d), (e), (f)
	22	Guangxi	Normally	(a), (b), (c), (d), (e), (f)
	23	Liaoning	Normally	(a), (b), (c), (d), (e), (f)
	24	Shanghai	Normally	(a), (b), (c), (d), (e), (f)
	25	Tianjin	Normally	(a), (b), (c), (d), (e), (f)
	26	Jiangxi	Normally	(a), (b), (c), (d), (e), (f)
	27	Shaanxi	Normally	(a), (b), (c), (d), (e), (f)
	28	Shandong	Normally	(a), (b), (c), (d), (e), (f)
	29	Chongqing	Normally	(a), (b), (c), (d), (e), (f)
	30	Beijing	Normally	(a), (b), (c), (d), (e), (f)
	31	Zhejiang	Normally	(a), (b), (c), (d), (e), (f)
USA	1	Florida	High temperature and high humidity	(c), (d), (e), (f)
	2	California	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	3	Arizona	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)
	4	Texas	High temperature difference and high irradiation	(a)-ii, (b)-ii, (b)-iii, (b)-v, (c), (d), (e), (f)



Trina Solar Co.,Ltd

**LIMITED WARRANTY FOR TRINA SOLAR BRAND CRYSTALLINE SOLAR PHOTOVOLTAIC MODULES**

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5	Alaska	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
6	Massachusetts	Normally	(a), (b), (c), (d), (e), (f)
7	New Jersey	Normally	(a), (b), (c), (d), (e), (f)
8	North Carolina	Normally	(a), (b), (c), (d), (e), (f)
10	New Canaan	Normally	(a), (b), (c), (d), (e), (f)
11	New York	Normally	(a), (b), (c), (d), (e), (f)
12	Hawaii	High temperature and high humidity	(c), (d), (e), (f)
13	Montana	Normally	(a), (b), (c), (d), (e), (f)
14	Nebraska	Normally	(a), (b), (c), (d), (e), (f)
15	Nevada	Normally	(a), (b), (c), (d), (e), (f)
16	New Hampshire	Normally	(a), (b), (c), (d), (e), (f)
17	New Mexico	Normally	(a), (b), (c), (d), (e), (f)
18	North Dakota	Normally	(a), (b), (c), (d), (e), (f)
19	Ohio	Normally	(a), (b), (c), (d), (e), (f)
20	Oklahoma	Normally	(a), (b), (c), (d), (e), (f)
21	Oregon	Normally	(a), (b), (c), (d), (e), (f)
22	Pennsylvania	Normally	(a), (b), (c), (d), (e), (f)
23	Rhode Island	Normally	(a), (b), (c), (d), (e), (f)
24	South Dakota	Normally	(a), (b), (c), (d), (e), (f)
25	Tennessee	Normally	(a), (b), (c), (d), (e), (f)
26	Utah	Normally	(a), (b), (c), (d), (e), (f)
27	Vermont	Normally	(a), (b), (c), (d), (e), (f)
28	Virginia	Normally	(a), (b), (c), (d), (e), (f)
29	Washington	Normally	(a), (b), (c), (d), (e), (f)
30	West Virginia	Normally	(a), (b), (c), (d), (e), (f)
31	Wisconsin	Normally	(a), (b), (c), (d), (e), (f)
32	Wyoming	Normally	(a), (b), (c), (d), (e), (f)
33	Alabama	Normally	(a), (b), (c), (d), (e), (f)
34	Arkansas	Normally	(a), (b), (c), (d), (e), (f)
35	Colorado	Normally	(a), (b), (c), (d), (e), (f)
36	Connecticut	Normally	(a), (b), (c), (d), (e), (f)

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	37	Delaware	Normally	(a), (b), (c), (d), (e), (f)
	38	Georgia state	Normally	(a), (b), (c), (d), (e), (f)
	39	Idaho	Normally	(a), (b), (c), (d), (e), (f)
	40	Illinois	Normally	(a), (b), (c), (d), (e), (f)
	41	Indiana	Normally	(a), (b), (c), (d), (e), (f)
	42	Iowa	Normally	(a), (b), (c), (d), (e), (f)
	43	Kansas	Normally	(a), (b), (c), (d), (e), (f)
	44	Kentucky	Normally	(a), (b), (c), (d), (e), (f)
	45	Lousiana	Normally	(a), (b), (c), (d), (e), (f)
	46	Maine	Normally	(a), (b), (c), (d), (e), (f)
	47	Maryland	Normally	(a), (b), (c), (d), (e), (f)
	48	Michigan	Normally	(a), (b), (c), (d), (e), (f)
	49	Minnesota	Normally	(a), (b), (c), (d), (e), (f)
	50	Mississippi	Normally	(a), (b), (c), (d), (e), (f)
	51	Missouri	Normally	(a), (b), (c), (d), (e), (f)
Canada	1	Canada	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
Russia	1	Russia	Gelid (Low irradiation)	(a), (b), (c), (d), (e), (f)
Armenia	1	Yerevan	Normally	(a), (b), (c), (d), (e), (f)

**PS-M-0135 Rev. A**

# JA Solar Zonnepanelen

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Garantievoorwaarden  
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# Limited Warranty

for PV Modules



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JA Solar Holdings Co., Ltd., and on behalf of ALL its DIRECTLY AND indirectly owned and controlled subsidiary, **INCLUDING BUT NOT LIMITED TO** Shanghai JA Solar Technology Co., Ltd. (hereinafter jointly referred to as “JA Solar”) warrants its Photovoltaic Solar modules’ (MODULES) performance starting from the date of sale to the first customer installing (or their own use) the modules (“Customer”) or starting at the latest 6 months after modules dispatch from the JA Solar factory, whichever occurs earlier (the “Warranty Commencement Date”).

## 1. Limited Product Warranty – Twelve Year Repair or Replacement

JA Solar warrants that the MODULES together with the factory-assembled DC connectors and cables are free from any defects in materials and workmanship under normal application, usage, installation and service conditions for a period of one hundred and forty-four (144) months from the Warranty Commencement Date. If MODULES become malfunctioning or non-operative due to defects in material or workmanship during the one hundred and forty-four (144)-month period from the Warranty Commencement Date, as verified by an independent testing agency that will be selected and confirmed mutually by JA Solar and Customer in advance, JA Solar will, at its sole option, either repair or replace the malfunctioning or inoperative MODULES, MODULES’ repair or replacement remedy shall be the sole and exclusive remedy provided under this Limited Product Warranty and shall not extend beyond the period set forth herein. This Limited Product Warranty does not warranty a specific power output at or during any time frame, which shall be exclusively covered under Section 2 of this Warranty hereinafter (“Limited Peak Power Warranty”).

## 2. Limited Peak Power Warranty– Limited Remedy

JA Solar warrants that for a period of twenty-five years starting from the Warranty Commencement Date, loss of power output against the minimum “Peak Power at STC” as specified on the label of the modules (hereinafter “Nominal Power”) when measured at Standard Test Conditions (STC) for the Product(s) shall not exceed:

- (1) For Mono Products: 3 % for the first year from the Warranty Commencement Date, and 0.65% per year thereafter from the 2nd to the 25th year of the warranty period; with a power output standing at 81.4% of the Nominal Power at the end of the 25-year warranty period;
- (2) For Poly Products: 2.5 % for the first year of the warranty period; with a power output per year thereafter from the 2nd to the 25th year of the warranty period; with a power output standing at 80.7% of the Nominal Power at the end of the 25-year warranty period.

Within the period of twenty-five (25)-year warranty period from the Warranty Commencement Date, should any qualified Module sold by JA Solar exhibit a loss of power output exceed the aforementioned warranted values, provided that any such declared loss in power has been verified by JA Solar, at its sole discretion is due to MODULES’ defects in materials or workmanship attributable to JA Solar’s own causes and further confirmed by an independent testing agency (if so requested by a customer) (which is to be selected and confirmed mutually by JA Solar and Customer in advance), JA Solar will, at its sole option and discretion, either (1) make up such loss in power by providing to customer(s) additional MODULES, or (2) repair or replace the defective MODULES including free shipping to the location as set out in the original sales contract entered between JA Solar and the customer.

The remedies set forth herein are the sole and exclusive remedies JA Solar is bound to provide under the Limited Peak Power Warranty.

### CAVEAT:

The shipping charges for any allegedly defective MODULES shall be borne by the customers making such claims in advance. Should the independent testing agency confirm that such filed defective are to be covered under this Warranty by JA Solar, the shipping charges advanced by the customers may be reimbursed by JA Solar against the original proof of expenditure.

## 3. Exclusions and Limitations

(a) Warranty claims from any customers, in any event, shall be filed in writing to JA Solar or its authorized distributors within the applicable warranty period and not beyond the last day of the applicable period of time as stated above.

(b) The Limited Product Warranty and Limited Peak Power Warranty shall not apply to MODULES which have been subject to:

- Misuse, abuse, neglect, vandalism or accident;
- Repair or modifications that do not strictly follow the manufacturer’s instructions;
- Non-observance of JA Solar’s maintenance instructions;
- Power failure, electrical spikes or surges, lightning, flood, fire, accidental breakage or other events outside JA Solar’s control.
- Alteration, improper installation or application which is not compliant with JA Solar standard installation manual.

(c) The Limited Product Warranty and Limited Peak Power Warranty do not cover any costs associated with installation, removal or re-installation of the MODULES and (except as explicitly set forth in the last paragraph of the Section 5) customs clearance or any other costs for return of the MODULES.

(d) Warranty claims will not be honored if the type or serial number of JA Solar MODULES have been altered, removed or made illegible without written authorization from JA Solar.

## 4. Limitation of Warranty Scope

This Warranty as set forth herein is expressly in lieu of and excludes 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 JA Solar, unless such other obligations or liabilities are expressly agreed to in writing signed and approved by JA Solar. JA Solar 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 JA Solar be liable for incidental, consequential or special damages, however caused. Loss of use, loss of profits, loss of production, and loss of revenues. The aforementioned alleged losses by customers are specifically and without limitation excluded from responsibilities of JA Solar. JA Solar’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 MODULES.

## 5. Obtaining Warranty Performance

If the Customer has a justified claim covered by this Warranty, an immediate written notification shall be directly made to JA Solar by means of registered letter to the address of JA Solar listed hereunder, or, sending a notification via e-mail to the e-mail account of JA Solar listed hereunder. Together with the notification, the Customer should enclose the evidence of the claim with the corresponding serial number of the MODULES and the date on which the MODULES have been purchased. An invoice with clear indication of the purchase date, purchase price, module type, stamp or signature of JA Solar or its distributors should also be submitted as part of the preliminary evidence.

If the MODULES will be returned to JA Solar for inspection, repair or replacement by JA Solar, JA Solar shall provide the Customer with a Return Merchandise Authorization (RMA). However, JA Solar will not accept a return of any MODULES without such RMA. In connection with both the Limited Product Warranty and Limited Peak Power Warranty, JA Solar may reimburse customer for reasonable, customary and documented transportation charges by sea freight for both the return of the MODULES and reshipment of any repair or replacement MODULES, only if such cost reimbursement is authorized by JA Solar’s Customer Service Department in advance.

## 6. Transferability

This warranty is extended to the original end-user purchaser, and is also transferable to any subsequent owner of the location or holder of the product when MODULES remain at their original installed location upon satisfactory proof of succession or assignment.

## 7. Severability

If a section, provision or clause of this Warranty, or the application thereof to any person or circumstance, is held invalid, void or unenforceable, such shall not affect and thus shall leave all other sections, provisions, clauses or applications under this Warranty severable, and therefore validly binding.

## 8. Dispute Resolution

In case of any dispute in terms of warranty-claims, a first-class international testing institute, such as PI Berlin, TÜV SUD or Intertek, J.L. shall be entrusted by both parties upon mutual consents in order to provide third party verification and comments. All fees and expenses shall be borne by the party that demanded such verification procedure, unless otherwise agreed.

Further dispute over the claim shall be submitted to dispute resolution as stipulated in the main sales contract to which this Warranty is a part of and subject to the applicable jurisdiction agreed by the parties in the sales contract.

## 9. Various

The repair or replacement of the MODULES or the supply of additional MODULES does not lead to a new commencement of warranty terms, nor shall the original terms of this Warranty be extended. Any replaced MODULES shall become the property of JA Solar.

JA Solar shall at its own options to deliver another type of MODULES (different in size, color, shape, or power), either a new brand or the original one, in case that JA Solar has discontinued producing the module in question at the time of the claim.

## 10. Force Majeure

JA Solar shall not be responsible or liable to the Customer whatsoever or any third-party arising out of any non-performance or delay in performance of any terms and conditions of the sales, including this Warranty, due to causes of natural disasters such as fire, flood, blizzard, hurricane, thunder, acts of God, changes of public policies, terrorism, war, riots, strikes, unavailability of suitable and sufficient labor or materials and other events which are out of control of JA Solar.

### REMARK:

“Peak Power” is the power in watt peak that MODULES generates in its maximum power point under STC condition. ‘STC’ are as follows:

- (a) Light spectrum of AM 1.5
- (b) Irradiance at 1,000W/m<sup>2</sup>
- (c) Cell temperature of 25 degree Centigrade at right angle irradiation

The measurements are carried out in accordance with IEC61215 as tested at the junction box terminals per the calibration and testing standards of JA Solar valid at the date of manufacture of the MODULES. JA Solar’s calibration standards shall be in compliance with the standards applied by international institutions accredited for this purpose.



# Ulica Solar Zonnepanelen

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## PV modules Limited Warranty

The model types of Ulica Solar standard PV MODULES under this warranty as below:

,1) Poly-crystalline Solar panel range

UL-xxxP-120 / UL-xxxP-120HV, xxx=280-310 in step of 5 ;

UL-xxxP-144 / UL-xxxP-144HV, xxx=335-375 in step of 5 ;

xxx is standing for rated output power at STC

,2) Mono-crystalline Solar panel range

UL-xxxM-72/ UL-xxxM-72HV, xxx=330-390 in step of 5 ;

UL-xxxM-60/ UL-xxxM-60HV, xxx=275-325 in step of 5 ;

UL-xxxM-144/ UL-xxxM-144HV, xxx=370-415 in step of 5 ;

UL-xxxM-120 / UL-xxxM-120HV, xxx=305-345 in step of 5 ;

UL-xxxM-144/ UL-xxxM-144HV, xxx=430-450 in step of 5 ;

UL-xxxM-120 / UL-xxxM-120HV, xxx=360-375 in step of 5 ;

xxx is standing for rated output power at STC

For the standard solar module types listed above, Ningbo Ulica Solar Science & Technology Co., Ltd. (Ulica Solar) shall WARRANT its Photovoltaic Solar Modules (MODULES)'s performance (i) starting from the date of sale to the first customer installing the MODULES or (ii) starting at the latest 12 months after MODULES dispatch from Ulica Solar's factory, whichever occurs earlier (the WARRANTY START DATE).

### 1. Twelve-year Limited Product Warranty

Ulica Solar warrants its MODULES, including factory-assembled DC connectors and cables, if any, to be free from defects in materials and workmanship under normal, application, installation, use and service conditions. If the MODULES fail to conform to this warranty, during a period of **Twelve** Years (One Hundred Forty Four Months) from WARRANTY START DATE, Ulica Solar shall, at its option, either repair or replace the MODULE, or refund the then current market price of MODULES. The repair, replacement or refund remedy shall be the sole and exclusive remedy provided under the "**Twelve** -year Limited Product Warranty" and shall not extend beyond the period set forth herein. This "**Twelve** -year Limited Product Warranty" does not warrant a specific power output, which shall be exclusively covered under clause 2 hereinafter.

## **2. Twenty-five-year Limited Performance Warranty**

Ulica Solar warrants that for a period of 25 years commencing on the WARRANTY START DATE loss of power output of the Nominal Power Output specified in the relevant product data sheet and measured at standard test conditions (STC) for the products shall not exceed:

- For Poly-crystalline Products: **2.5%** in the first year, thereafter 0.7% per year, ending with 80% in the 25<sup>th</sup> year after the WARRANTY START DATE.
- For Mono-crystalline Products: **3.0%** in the first year, thereafter 0.68% per year, ending with 80% in the 25<sup>th</sup> year after the WARRANTY START DATE.

If the MODULE power output does not achieve the above minimum output thresholds during the guarantee period, then such loss in power is determined by Ulica Solar, at its sole and absolute discretion, and shall be compensated by providing CUSTOMER additional MODULES to make up such loss in power.

“Nominal Power Output” is the power in Watt Peak that a PV-module generates in its Maximum Power Point under STC condition. “STC” are as follows (a) light spectrum of AM 1.5, (b) an irradiation of 1000 W per m<sup>2</sup> and (c) a cell temperature of 25 degree Centigrade. The measurements are carried out in accordance with IEC60904 as tested at the connector or junction box terminals (as applicable) per the calibration and testing standards of Ulica Solar valid at the date of manufacture of the PV-Modules.

This “Limited Warranty of PV Modules” cover any transportation charge, customs clearance or any other costs for return of MODULES or reshipment of any replaced MODULES, or cost associated with installation, removal or reinstallation of MODULES.

## **3. Exclusions and Limitations**

Warranty claims must in any event be filled within the applicable Warranty period and this “Limited Warranty of PV Modules” does not apply to any MODULE which in Ulica Solar’s absolute judgment has been subjected to:

- Modification, customer repair, misuse, abuse, neglect or accident;
- Alternation, improper installation or application;
- Non-observance of Ulica Solar’s installation and maintenance instructions;
- Scratch Service by service technicians who are not qualified under the relevant law and/or applicable regulations at the place of installation;
- The MODULE’s type, or series number is changed, erased or made illegible.
- Exposure to improper voltage or power surges or abnormal environmental conditions (such as acid rain or other pollution);

- 
- Defective components in the construction on which the modules is mounted;
  - Exposure to mold discoloration or similar external effects;
  - Exposure to any of the following: extreme thermal or environmental conditions or rapid changes in such conditions, corrosion, oxidation, unauthorized modifications or connections, unauthorized opening, servicing by use of unauthorized spare parts, accident, force of nature (such as lightning strike, earthquake), influence from chemical MODULEs or other acts which are out Ulica Solar's control (including damage by fire, flood, etc.)

#### **4. Limited Warranty Scope**

This "Limited Warranty for PV modules" as set forth herein expressly in lieu of and exclude all other express or implied warranties, including but not limited to warranties of and of fitness for particular purpose, use, or application, and all other obligations or liabilities on the part of Ulica Solar, unless such other obligation or liabilities are expressly agreed to in writing on the part of Ulica Solar. Ulica Solar 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 but without limitation, or from use or installation. Under no circumstances shall Ulica Solar be reliable 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. Ulica Solar's aggregate liability, if any, in damages or otherwise, shall not exceed the invoice value as paid by the CUSTOMER.

#### **5. Obtaining Warranty Performance**

If the CUSTOMER has a justified claim covered by this "Limited Warranty for PV-Modules", an immediately notification directly to Ulica Solar shall be filed by mailing a registered letter in writing to the address of Ulica Solar listed hereunder, or, sending an email letter to the email account of Ulica Solar listed hereunder. Together with the notification, the CUSTOMER should enclose the evidence of the claim with the corresponding serial number of the MODULES and the date on which the MODULES have been purchased. An invoice with clear indication of the purchase date, purchase price, module type, stamp or signature of Ulica Solar or its distributor should also be submitted as part of the evidence. The return of any MODULES will not be accepted unless prior written authorization has been given by Ulica Solar.

#### **6. Dispute**

In case of any discrepancy in a warranty-claim, a first-class international test institute such as TUV or JET in Japan shall be involved to judge the claim finally. All the fee and expenses shall be born by the losing party, unless otherwise awarded.

**7. Various**

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 "Limited Warranty for PV Module" be extended. Any replaced MODULES shall become the property of Ulica Solar made for their disposal. Ulica Solar has the right to deliver another type (different in size, color, shape and /or power) in case Ulica Solar discontinued producing the replaced MODULES at the time of the claim.

**8. Warranty Transfer**

This "Limited Warranty for PV Modules" is transferable when the MODULES remains installed in its original installation location and will become null and void if the MODULE is transferred from the original installation location without written permission from Ulica Solar.

**9. Force Majeure**

ULICA SOLAR shall not in any way be responsible or liable to the Customer or any third-party arising from any non-performance or delay in performance of any terms and conditions of sale, including this "Limited Warranty for PV Module", due to acts of God, war, riots, strikes, warlike conditions, plague or other epidemics, fire, flood, or any other similar cause or circumstance beyond the reasonable control Ulica Solar. In such cases, performance by Ulica Solar in this Limited Warranty shall be suspended without liability for the period of delay reasonably attributable to such cause.

**10. Validation**

This "Limited Warranty of PV Modules" shall be valid together with the stamp and signature of Sales Contract and only valid for all of MODULES under this Sales Contract.

**11. Additional Note**

11.1 This warranty is provided in addition to other rights and remedies held by a consumer at law. Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonable foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure

**11.2 Product recalls**

When a batch of modules is found to present a safety risk or does not comply with a mandatory standard or ban and is required to be recalled, product recall will be conducted in accordance with the ACCC Product Safety Recall Guidelines (available at <http://www.productsafety.gov.au/publication/consumer-safety-recall-guidelines>).



**Global Service Center:**

Ningbo Ulica Solar Science & Technology Co., Ltd.

Add: No.181, Shanshan Road, Wangchun Industrial Area,  
Haishu District, Ningbo, China (PC: 315177)

Tel: 86-574-28828976

Fax: 86-574-28828997

Email: [sales@ulsolar.com.cn](mailto:sales@ulsolar.com.cn)

Web: [www.ulicasolar.com](http://www.ulicasolar.com)

Eco Skura Energy Pty Ltd

Add: 59 Tacoma Cct, Canning Vale WA 6155

Tel ;08 6107 7335

M: +61 472 783 312 +86 13818398898

Contact person: Ethan Lee

Email: <[ethan@ecosakura.com.au](mailto:ethan@ecosakura.com.au)>

Web: [www.ecosakura.com.au](http://www.ecosakura.com.au)

# LG Zonnepanelen

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The following limited guarantee (hereinafter "Limited Guarantee") is provided by LG Electronics Inc., Solar Business Division, LG Twin Towers, 20 Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea, Tel. +82 / 2 / 3777-1114 Fax. +82 / 2 / 3777-5140 (hereinafter "LG").

It applies to LG Solar Module models (hereinafter "Module(s)") manufactured by LG and extends only to the original end use purchaser who purchased lawfully and subsequent owner(s) of the location on which the Module(s) is/are originally installed (all such persons hereinafter referred to as "Customer"). The Limited Guarantee's start date ("Guarantee Start Date") shall be the date of purchase by the original end use purchaser. If the Customer is unable to provide adequate documentation of the original purchase, the Warranty Start Date shall be ninety (90) days after the Module(s) was manufactured.

### **1. 25 Years Limited Guarantee for all LGxxxNxK/NxW/NxK-V5 Module(s)**

LG will, at its sole discretion, repair or replace the Module within the applicable scope covered under section 3 hereinafter ("How this Limited Guarantee applies"), if it proves to be defective in material or workmanship during a period ending 25 years from the Guarantee Start Date under normal application, installation, use and service conditions.

### **2. 25 Years Limited Guarantee for Power Output - for all LGxxxNxK/NxW/NxK-V5 Module(s)**

LG guarantees that for a period of one (1) year from Guarantee Start Date the actual power output of the Module will be no less than 98%, of the labeled power output. From the second year, the actual power output will decline on an average annual base by no more than 0.33% for remaining 24 years, so that by the end of the 25th year, an actual output of at least 90.08%, of the nameplate power output level specified on the Module will be achieved.

If the Module does not reach the guaranteed power output levels set out above when measured by the LG or by an independent measuring institute agreed to prior to testing by LG, under standard test conditions ("STC", IEC 61215) taking into account a  $\pm 3\%$  tolerance range, LG will, at its sole and absolute discretion, either (i) repair the Module; (ii) supplement such deficiency in power by either: (a) providing additional module(s) to the Customer, or (b) replacing the Module; or (iii) refund the difference between the guaranteed minimal power output and actual power output (measured under LG's STC) multiplied by the market price of the Module or a comparable model at the time of the Customer's claim.

Repair and replacement are subject to the applicable scope covered under section 3 hereinafter ("How this Limited Guarantee applies").

The power output values shall be those measured under LG's STC as follows: (a) light spectrum of AM 1.5; (b) an irradiation of 1000 W per m<sup>2</sup> and; (c) a cell temperature of 25 degrees centigrade at right angle irradiation.

### **3. How this Limited Guarantee applies**

The remedies set forth in this Limited Guarantee shall be the sole and exclusive remedies and the original Guarantee period in this Limited Guarantee shall not extend beyond the period set forth therein, nor will a new Guarantee period begin, upon repair, replacement or pro-rated refund due to power loss at LG's sole option provided under this Limited Guarantee.

Repair or replacement will be made with new or remanufactured Module or parts and the replaced Module or parts shall become the property of LG. In the event the Module is no longer available, LG reserves the right, at its sole option, to deliver a new or remanufactured Module that may differ in size, color, shape, model number, and/or power output level.

This Limited Guarantee covers the transportation cost for reshipment of any repaired or replaced Module to the Customer site, **but does NOT cover the transportation cost and risk including shipping damage or loss for return of the Module to LG or LG's authorized agent and any other costs associated with installation, removal, or reinstallation of the Module.** If a Module returned to LG is found not to be defective or this Limited Guarantee has expired, the Customer is responsible to pay for return shipping cost.

#### **4. Limited Guarantee exclusions**

##### **4.1. This Limited Guarantee does NOT apply to Module(s):**

- (a) Sold and/or installed outside the geographic territory of EEA (European Economic Area - the countries of the European Union, Norway, Iceland and Liechtenstein) as well as outside Switzerland and Turkey;
- (b) Sold AS IS or WITH ALL FAULTS or consumables; or
- (c) That had a serial number or any part thereof altered, defaced or removed.
- (d) Color variation of cells or Module(s) that does not affect the power output.

##### **4.2. This Limited Guarantee also does NOT apply to Module(s) which have been subjected to:**

Damage and/or failure caused by

- (a) use on a mobile unit including, but not limited to, vehicles, vessels, etc.;
- (b) non-compliance with national and local electric codes;
- (c) installations not in conformance with the Module(s) specifications, installation instructions, operation manuals, or labels attached to the Module(s);
- (d) improper wiring, installation, or handling;
- (e) devices and/or parts other than the Module(s) or by mounting methods of such devices and/or parts;
- (f) improper or incorrectly performed maintenance, operation or modification;
- (g) removal from the original place of installment;
- (h) repairs not in accordance with LG's instructions;
- (i) inappropriate handling during storage, packaging or transportation;
- (j) external shock such as flying objects or external stress;
- (k) environmental pollution such as soot, acid rain or industrial chemicals including ammonia;
- (l) direct contact with salt water or underground water containing lime component or petrochemicals;
- (m) natural forces (earthquakes, tornados, floods, lightning, hurricanes, heavy snow, etc.) and fire, power failures, power surges or other unforeseen circumstances that are beyond LG's control;
- (n) terrorist acts, riots, war or vandalism;
- (o) external stains or scratches that do not affect output;
- (p) sound, vibration, rust, scratching, or discolorations that are the result of normal wear and tear, aging or continuous use; or
- (q) Module(s) installed in a location that exceeds operating conditions.

## 5. Limitation of Guarantee Scope

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE MODULE(S) IS LIMITED IN DURATION OF THIS LIMITED GUARANTEE. UNDER NO CIRCUMSTANCES SHALL LG BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOST GOODWILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, MODULE(S) FAILURE, IMPAIRMENT OF OTHER GOODS, COSTS OF REMOVAL AND REINSTALLATION OF THE MODULE(S), LOSS OF USE, ARISING OUT OR RELATED TO THE MODULE(S). LG'S TOTAL LIABILITY, IF ANY, DAMAGES OR OTHERWISE, SHALL NOT EXCEED THE INVOICE VALUE PAID BY THE CUSTOMER FOR THE MODULE(S) OR SERVICE(S) FURNISHED, WHICH IS THE SUBJECT OF A CLAIM OR DISPUTE. SOME COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED GUARANTEE LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED GUARANTEE GIVES THE CUSTOMER SPECIFIC LEGAL RIGHTS; CUSTOMERS MAY ALSO HAVE OTHER RIGHTS OUT OF CONTRACT OR STATUTORY LAW THAT VARY FROM COUNTRY TO COUNTRY.

## 6. Assertion of Claims

The assertion of claims under this Limited Guarantee presupposes that the Customer has informed the authorized reseller/distributor of our Module(s) in writing of the alleged claim. Any such assertion of claims must be accompanied by the original sales receipt as the proof of purchase and time of purchase of LG Module(s). The assertion of the claim must occur within thirty (30) days from the date that the claim is identified. The return of Module(s) may only occur after the written authorization of LG has been given.

## 7. Obtaining Guarantee Performance

Customers who believe they have a justified claim covered under this Limited Guarantee must immediately notify in writing the authorized reseller/distributor. If the latter no more exists (e.g. due to discontinuance of business or bankruptcy) the Customer may also contact LG directly by writing to:

LG Electronics Inc.  
Solar Business Division  
20 Yeouido-dong, Yeongdeungpo-gu,  
Seoul 150-721,  
Republic of Korea

LG Electronics Deutschland GmbH  
EU Solar Business Group  
Alfred-Herrhausen-Alle 3-5  
65760 Eschborn  
Germany  
Tel.: +49 (0) 6196.5821.620  
E-Mail: service-solar@lge.de

Customer may also contact LG via its website at [www.lg-solar.com](http://www.lg-solar.com).

## 8. Force Majeure

LG shall not be responsible or liable to Customer or any third party for any nonperformance or delay in performance of any terms and conditions of sale, including this Limited Guarantee, due to acts of God, war, strikes, riots, unavailability of suitable and sufficient labor, material, capacity, technical, yield failures or any other unforeseen event beyond LG's control, including, without limitations, any technological, physical event or condition which is not reasonably known or understood at the time of sale of the Module(s) or the claim.

## **9. Disputes**

All actions at law arising out of or relating to this Limited Guarantee shall be submitted to the exclusive jurisdiction of the competent courts in Frankfurt, Germany, regardless of the nature of the claim or the respective dispute.

## **10. Governing Law**

The laws of Germany apply to and govern this Limited Guarantee and all of its terms and conditions, without giving effect to any principles of conflicts of laws.

## **11. Severability**

If a part, provision or section of this Limited Guarantee, or its application to any person or circumstance is held invalid, void or unenforceable, such holding shall not affect this Limited Guarantee and all other parts, provisions, clauses or applications shall remain, and, to this end, such other parts, provisions, clauses or applications of the Limited Guarantee shall be treated as severable.

## **15. Validity**

This Limited Warranty shall apply to all modules with model "LGxxxNxC-V5", "LGxxxNxW-V5" and "LGxxxNxK-V5".

LG holds the right to amend the provisions, clauses or applications of this Limited Guarantee from time to time without notice; however such changes would not be retrospective.

In case of conflict with other languages of this Limited Guarantee the German version shall prevail.

Status: Apr 25, 2019