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 苏州腾晖光伏技术有限公司 Suzhou Talesun Solar Technologies Co., Ltd.	TECHNICAL SPECIFICATION	
TITLE: LIMITED WARRANTY CERTIFICATE FOR TALESUN BRAND CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE	SPEC. NO.:	TS-ET-124
	REVISION:	A0
	EFFECTIVE DATE:	07-2020
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SuZhou Talesun Solar Technologies Co., Ltd. TALESUN hereby provide the limited warranty as below Limited Warranty described below to the initial owner of such Modules the Buyer This Limited Warranty applies exclusively to the new modules purchased from Talesun TALESUN reserve the right to amend the terms of this Limited Warranty as needed from time to time.

Modules are defined in this Limited Warranty as photovoltaic solar modules manufactured by TALESUN or its authorized manufacturers, legitimately bearing Talesun brand that are of the following product types:

TP572M-XXX ; TP596M-XXX ; TP648M-XXX ; TP648P-XXX ; TP660M-XXX/ TP660M (H) -XXX ; TP660P-XXX/ TP660P (H) -XXX; TP672M-XXX/ TP672M (H) -XXX; TP672P-XXX/ TP672P (H) -XXX ;TP6H60M-XXX/TP6H60M (H) -XXX;TP6H60P-XXX/ TP6H60P (H) -XXX;TP6H72M-XXX/ TP6H72M (H) -XXX; TP6H72P-XXX/ TP6H72P (H) -XXX ; TP6G72M-XXX/ TP6G72M (H) -XXX; TP6G60M-XXX/ TP6G60M (H) -XXX; TP6F72M-XXX/ TP6F72M (H) -XXX; TP6F60M-XXX/ TP6F60M (H) -XXX ; TP678M-XXX/ TP678M (H) -XXX; TP6L72M-XXX/TP6L72M(H)-XXX; TP6L60M-XXX/ TP6L60M (H) - XXX

Note:

“X” represents different types of product under different power class.

M -Mono Module,

P -Poly Module,

H- stand for half cutting module 5BB

F-stand for half cutting module 9BB


G-stand for half cutting module 9BB Bifacial

L-stand for half cutting module 166 9BB

(H)- stand for 1500V system voltage

The product model includes but is not limited to the above model and shall be subject to the specific model purchased by the customer.

If you have purchased this product in Australia, you should aware that 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

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Talesun 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. Should Talesun confirm that the Modules are indeed not in conformity with the Limited Product Warranty, it shall, at its sole discretion, within a reasonable time period, either:

in the event of any defects or deficiencies of such Modules, TALESUN shall, during the prescribed period of time of this Limited Warranty, promptly repair or replace such Modules or components therein that have or have caused the aesthetic defects and/or power generating deficiencies under the IEC61215, IEC61730, UL1703 standards. If TALASUN fails to repair or replace any such defective or deficient Modules within a reasonable cure period, TALASUN will upon the Buyer's written request provide refund of the applicable Purchase Order price of the relevant component


or entity who was not under TALESUN's direct or indirect control or aesthetic appearances of any Module caused by misuse, abuse, neglect or unauthorized maintenance practices implemented by such person or entity

Warranty Effective Date

The effective date of the warranty shall be defined as the date on which the product is delivered to the buyer or the 180th day from the date of manufacture of the product, whichever is earlier.

All warranties including the warranties of merchantability and fitness for use are limited to the period(s) from the Warranty Effective Date set forth below. Not contrary to the foregoing, neither the sales personnel of TALESUN nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described below on behalf of TALESUN.

The warranties described herein shall be sole and exclusive warranties granted by TALESUN and shall be the sole and exclusive remedy available to the purchaser for TALESUN's breach of its warranty obligations under the Purchase Orders. Timely correction of defects or deficiencies of the applicable Modules, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of TALESUN to the Buyer with respect to the Products and shall constitute full satisfaction of all Buyer's warranty claims, whether based on contract, negligence, and strict liability otherwise. TALESUN shall not be liable or in any way be responsible for any incidental or consequential damages of the Buyer arising out of TALESUN's breach of warranty. TALESUN's aggregate liability, if any, in damages or otherwise, shall not exceed the mutually agreed controlling limitation of liability set forth in the Master Agreement between Talesun and the Buyer

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15 Year Limited Product Warranty

Subject to the terms and conditions of this Limited Warranty, Talesun warrants to the Customer for a period of fifteen (15) years following the Warranty Start Date (hereinafter referred to as Limited Product Warranty Period that the Modules together with the factory-assembled DC connectors and cables), when installed, used, and serviced under normal operating conditions and in accordance with the Talesun module installation manual and product technical specifications, to be free from any defects in design, materials, workmanship or manufacturing that have a negative effect on the functioning of the Modules; and, Comply with the design and technical specifications in the product technical specifications provided by Talesun.

Should the Modules are indeed not in conformity with the Limited Product Warranty, Talesun shall, at its sole discretion, within a reasonable time period, either:

- a) Repair Power the Claim Modules at no charge to Customer;
- b) provide Customer with replacement Modules in place of the claimed Modules;
- or c) provide Customer a refund of the purchase price as evidenced by the original supply invoice provided by Customer, subject to an annual 4% for single glass module depreciation rate on the purchase price (if Customer is unable to provide the original supply invoice, monetary compensation will be made based on the then market price of an identical or similar module type).

Any color change on module or any other changes on module appearance do not represent defects, insofar as the change in appearance does not stem from defects in material and/or workmanship, and does not cause degradation of functionality of the module.

25 Year Limited Performance Warranty


Subject to the terms and conditions of this Limited Warranty, TALESUN provides to the Customer a Limited Peak Power Warranty with a term of 25 years for single glass Modules from the Warranty Start Date ("Limited Peak Power Warranty Period"):

Mono crystalline Solar Cell Modules:

- a) From the first year of sale, the nominal output power of the module is not less than 97% of the product of the nameplate output power of the module and the minimum value of the module tolerance.
- b) From year 2 to year 24, the actual power degradation will be no more than 0.7% in each year; by the end of year 25, the nominal output power of the module is not less than 80.2% of the nameplate output power of the module's maximum peak output and the minimum of the module tolerance.

Polycrystalline Solar Cell Modules:

- a) From the first year of sale, the nominal output power of the module is not less than 97.5% of the product of the nameplate output power of the module and the minimum value

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of the module tolerance.

- b) From year 2 to year 24, the actual power degradation will be no more than 0.7% in each year; by the end of year 25, the nominal output power of the module is not less than 80.7% of the nameplate output power of the module's maximum peak output and the minimum of the module tolerance.

Description: the output power is the power of the PV module under standard test conditions (STC). The standard test conditions (STC) are as follows: (a) spectral AM1.5, (b) light intensity 1000W/m², (c) temperature 25 ± 2 DEG C. The test condition is based on the IEC61215 and IEC61836 components, the actual output power measurement is in the factory or by Talesun approved third party inspection agency, the test uncertainty of 2 sigma (Pmpp) less than 2.5% which should be added to the actual power test calculation to eliminate the test error between different measuring devices.

If during the warranty period, the power output is lower than the actual module commitment power, by Talesun confirmed, Talesun will provide additional modules to customers in order to compensate for the loss of power, or maintenance and replacement of faulty components to eliminate power loss, or loss of power to customers of the corresponding economic compensation, the specific way by Talesun to decide. But the attenuated power during the period used will be deducted

Compensation for insufficient component power (see below):

Type 1: Pnc - compensation for insufficient module power in N;

Pnt - module theoretic minimum output power of N;

Pna - actual output power of modules for year N;

t - absolute value of minimum tolerance of nameplate;

- (a) For polycrystalline components, the Pnt uses the following formula

$$Pnt = [97.5\% - 0.7\% * (N-1)] * Pm * (1 - t)$$

- (b) For Monocrystalline modules, the Pnt uses the following formula

$$Pnt = [97\% - 0.7\% * (N-1)] * Pm * (1 - t)$$


Note:

- (c) Pna is tested under standard test conditions (STC), tested at the Talesun plant or Talesun's third party testing organization, to test the actual output power of modules for the years N.

Additional Item(s) Excluded from Warranty Coverage:

Warranty coverage does not apply when:

- a) subject to misuse, abuse, neglect, or accident except as may be caused by Talesun in the course of storage, transportation, handling, installation, application, use or service;
- b) The Product is installed on unsuitable mobile platforms excluding fixed floating solar applications other than single or dual axis trackers or in a marine environment

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- subjected to improper voltage or power surges or abnormal environmental conditions such as acid rain or other pollution the assembly base structural component or installation method of the component is defective
- c) Excessive corrosions of the Modules due to direct contacts with corrosive agents and mold discoloration etc.;
 - d) Defects caused by the Product being subjected to any of the following extreme thermal or environmental conditions or rapid changes in such conditions corrosion oxidation unauthori ed modifications or connections unauthori ed opening or repair repair by use of unauthori ed spare parts accident force of nature such as lightning strike influence from chemical product or other acts beyond TALESUN reasonable control including but not limited to damage by fire flood etc
 - e) Death or injury to persons resulting from any cause other than negligence of TALESUN its employees or representatives
 - f) Incidental consequential or special damages such as loss of use loss of profits revenues business goodwill damage to reputation or expensed payable to a third party
 - g) Failure of Modules such as PID potential induced degradation caused by incorrect system design installation or system components mismatch
 - h) The Modules have been altered repaired or modified or used in processes or in combination with other products not supplied by Talesun in a manner not consistent with the written instructions of or without the prior written consent of Talesun or its affiliates
 - i) removed and re installed at any location other than the physical location in which it was originally installed following purchase by Customer or receipt from Talesun as a replacement Module
 - j) The product type nameplate or serial number of the Modules have been removed altered erased or rendered illegible

Notwithstanding any other provision of this Limited Warranty, and including if TALESUN is liable to compensate Customer hereunder, the total compensation paid or payable by TALESUN, and the total liability of TALESUN hereunder, shall not exceed the amount actually received by TALESUN as indicated in the original invoice for the Claim Modules. The limitations of liability under this Limited Warranty will not apply to the extent restricted or prohibited by applicable mandatory law.

Other

The repair or replacement of the Products or the supply of additional Products does not cause the beginning of new warranty terms nor shall the original terms of this Limited Warranty for SPV Module be extended Any replaced Products shall become the property of TALESUN made for their disposal. TALESUN has the right to deliver another type (different in size, color, shape and/or power) in case TALESUN discontinue producing the



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If a part provision or clause of this Limited Warranty for SPV Module 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 SPV Module and to this end such other parts provisions clauses or applications of this Limited Warranty for SPV Module shall be treated as severable

Manufacturer:

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 Web address: www.tailesun.com

Importer:

ZHONGLI TALESUN SOLAR PTY LTD

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Sol Distribution PTY LTD

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