 苏州腾晖光伏技术有限公司 Talesun Suzhou Talesun Solar Technologies Co., Ltd.	TECHINICAL SPECIFICATION	
TITLE: LIMITED WARRANTY CERTIFICATE FOR TALESUN N-type TOPCon DOUBLE GLASS SOLAR PHOTOVOLTAIC MODULE - AUSTRALIA	SPEC. NO.:	TS-ET-180
	REVISION:	A2
	EFFECTIVE DATE:	02-2025
AUTHOR(S):		

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:

N type-Mono crystalline Solar Cell Modules:

TM7G54M-XXX; TM7G72M-XXX; TM7G78M-XXX;

TM3G48M-XXX; TM3G66M-XXX; TM8G66M-XXX;

Note:

The first M stands for double glass

G-stand for MBB half cutting module


The second M stands for Mono Module

XXX represents the rated output power at STC

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

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

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TALASUN fails to repair or replace any such defective or deficient Modules within a reasonably cure period, TALASUN will, upon the Buyer's written request, provide refund of the applicable Purchase Order price of the relevant component


The warranty shall not apply should the damage is caused by any non-Talesun person or entity who was not under TALESON'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 start from the earlier of (i) the date of initial delivery to the Customer by TALESON or its authorized manufacturer, or (ii) six (6) calendar months after Modules dispatched from the TALESON factories as indicated by the serial numbers for such Modules (hereinafter referred to as "Warranty Effective Date").

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 TALESON 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 TALESON.

The warranties described herein shall be sole and exclusive warranties granted by TALESON and shall be the sole and exclusive remedy available to the purchaser for TALESON'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 TALESON 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. TALESON shall not be liable or in any way be responsible for any

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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.

12-year / 15-year Limited Product Warranty


Subject to the terms and conditions of this Limited Warranty, Talesun warrants to the Customer for a period of twelve (12) years or 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. The 12-year Limited Product Warranty applies to the following Modules types only: TM7G72M-XXX; TM7G78M-XXX; TM3G66M-XXX; TM8G66M-XXX. The 15-year Limited Product Warranty applies to the following Module types only: TM7G54M-XXX, TM3G48-XXX.

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 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 3.5% for double 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

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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.

30 Year Limited Performance Warranty


Talesun for modules 30 years power output limited warranty as follows:

N Type TOPCon Monocrystalline Solar Cell Modules

- a) From the first year of sale, the nominal output power of the module is not less than 99% 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 29, the nominal power degradation will be no more than 0.4% in each year; by the end of year 30, the nominal output power of the module is not less than 87.4% 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 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%

If during the warranty period, the power output is lower than the actual module commitment power, by Talesun confirmed, Talesun will provide additional modules

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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):

$$P_{nc} = P_{nt} - P_{na}$$

Type 1: P_{nc} - compensation for insufficient module power in N;

P_{nt} - module theoretic minimum output power of N;

P_{na} - actual output power of modules for year N;

for N Type TOPCon Monocrystalline modules, the P_{nt} uses the following formula

$$P_{nt} = [99\% - 0.4\% * (N - 1)] * P_m * (1 - \Delta t)$$

Note: P_m is the nominal output power of the product in the Talesun product data sheet,


P_{na} 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.


Δt - absolute value of minimum tolerance of nameplate

Additional Item(s) Excluded from Warranty Coverage:

Warranty coverage does not apply when:

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- 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, 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, unauthorized modifications or connections, unauthorized opening or repair, repair by use of unauthorized 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

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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 PV 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 replaced Products at the time of the claim.

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 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

Force Majeure

TALESUN shall not be responsible or liable in any way to the purchaser or any third-party arising from any non-performance or delay in performance of any terms and conditions of

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sale, including this “Limited Warranty for PV Module” , due to acts God, war, riots, strikes, unavailability of suitable and sufficient labor, material, or capacity or technical or yield failures and any unforeseen event beyond its control, including, without limitations, any technological or physical event or condition which is not reasonably known or understood at the time of the sale of the Products or the claim.

How to obtain warranty

If the Buyer, in according to "standard PV products limited warranty", can make valid warranty claims, complaints hereunder, TALESUN shall immediately acknowledge and respond in writing to the Buyer regarding its receipt of such complaint via TALESUN electronic mail or email. The Buyer shall enclose the warranty certificate issued by TALESUN, if any, along with the information pertaining to the corresponding Module components, serial number and applicable purchase date. At the same time, invoices for Payment of such Module should be provided which clearly display the purchase date, purchase price, component type, seal or signature of TALESUN or its distributor as evidence. Any return of the PV Module will not be accepted before TALESUN issues a written return-merchandise authorization and confirmation.

Customer shall only return the Claim Modules in accordance with the written instructions issued by Talesun. Otherwise, Talesun shall have the right to reject the warranty claim and refuse to accept the Claim Modules returned by Customer without authorization, and the related risk of loss and expenses shall be borne by Customer.

Any dispute arising from the warranty claim shall be subject to the agreement signed by both parties or the testing agency agreed by both parties to make the final decision. Unless otherwise stipulated in the verdict, all costs shall be borne by the losing party. The ultimate option of the aforementioned institutions belongs to Talesun.

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Severability

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

Assignment

Upon written notice to TALESUN, Customer may assign this Limited Warranty to a new owner of the entire power plant project or an individual consumer who is passed title of Module product after its initial installation, provided that: (i) the Modules remain in their original place of installation, (ii) there is no outstanding payment due under the supply contract; and (iii) the assignee agrees to be bound by these Limited Warranty terms. If requested by TALESUN, Customer shall provide reasonable evidence of such succession or transfer of ownership. This Limited Warranty may not otherwise be assigned or transferred, and any attempt to assign or transfer in violation of this Section 9 shall be null an void.

Manufacturer:

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