



Limited Warranty for RECOM Photovoltaic Modules

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LIMITED PRODUCT WARRANTY

RECOM warrants that all types of RECOM PV Modules, including factory assembled DC connectors and cables, are macro defect-free regarding materials and workmanship with the exception of improper installation, application, utilisation and maintenance.

Any appearance or cosmetic change(s) of the PV Modules, including but not limited to any discolouration, scratching, and mechanical wear-out, or any other change(s) attributable to or caused by the normal wear and tear over time that may occur after the Warranty Start Date (i.e. date of delivery), shall be exempt from the 15-Year Limited Product Warranty.

Claims shall be in effect under the 15-Year Limited Product Warranty only if the Customer has provided evidence sufficient enough to prove that the non-conformity or malfunctioning of the PV Modules results exclusively from the defect(s) and is covered by the 15-Year Limited Product Warranty. RECOM may, at its discretion, (a) repair the defective product, (b) supply a replacement product, or (c) pay the end-user the current market value of the product. The 15-Year Limited Product Warranty does not refer to a specific power output.

Limited Product Warranty extension:

- **RECOM Puma series:** The products are covered by 25-Year Limited Product Warranty.

- **RECOM Lion series (Glass/Glass):** The products are covered by 30-Year Limited Product Warranty.

LINEAR POWER OUTPUT WARRANTY

RECOM warrants that for a period of 25 years, beginning from the Warranty Start Date, any 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. Poly modules (Glass/Backsheet):** 2% within the first year, and thereafter 0.60% per year, so that RECOM PV Modules will produce no less than 83.6% of their nominal power in the 25th year after the Warranty Start Date.
- 2. Mono modules (Glass/Backsheet):** 3% within the first year, and thereafter 0.65% per year, so that RECOM PV Modules will produce no less than 81.4% of their nominal power in the 25th year after the Warranty Start Date.
- 3. Mono Bifacial modules (Glass/Backsheet):** 3% within the first year, and thereafter 0.55% per year, so that the Recom PV Modules will produce no less than 83.8% of their nominal power in the 25th year after the Warranty Start Date.
Extension: RCM-xxx-7BME, RCM-xxx-7BMM, RCM-xxx-7BMF (Glass/Backsheet): 2% within the first year, and thereafter 0.45% per year, so that RECOM PV Modules will produce no less than 84.95% of their nominal power in the 30th year after the Warranty Start Date.
- 4. Mono Bifacial modules (Glass/Glass):** 3% within the first year, and thereafter 0.5% per year, so that the Recom PV Modules will produce no less than 82.5% of their nominal power in the 30th year after the Warranty Start Date.
- 5. Mono Halfcut modules (Glass/Backsheet):** 2% within the first year, and thereafter 0.54% per year, so that RECOM PV Modules will produce no less

than 85.04% of their nominal power in the 25th year after the Warranty Start Date.

- 6. Mono Halfcut modules (Glass/Glass):** 2% within the first year, and thereafter 0.44% per year, so that the Recom PV Modules will produce no less than 85.24% of their nominal power in the 30th year after the Warranty Start Date.
- 7. N-Type modules (Glass/Backsheet):** 1% within the first year, and thereafter 0.45% per year, so that the Recom PV Modules will produce no less than 88.2% of their nominal power in the 25th year after the Warranty Start Date.
- 8. N-Type modules (Glass/Glass):** 1% within the first year, and thereafter 0.4% per year, so that the Recom PV Modules will produce no less than 87.4% of their nominal power in the 30th year after the Warranty Start Date.
- 9. Mono Tri Cut Modules "Jaguar Series" (Glass/Backsheet):** 2.5% within the first year, and thereafter 0.55% per year, so that RECOM PV Modules will produce no less than 84.3% of their nominal power in the 25th year after the warranty Start Date.
- 10. Mono Shingled modules "Puma Series" (Glass/Backsheet):** 2% within the first year, and thereafter 0.55% per year, so that RECOM PV Modules will produce no less than 84.8% of the nominal power in the 25th year after the Warranty Start Date.
- 11. Mono Bifacial Shingled modules "Puma Series" (Glass/Glass):** 2% within the first year, and thereafter 0.45% per year, so that RECOM PV Modules will produce no less than 84.95% of the nominal power in the 30th year after the Warranty Start Date.
- 12. HJT Bifacial modules "Lion Series" (Glass / Glass):** 1.5% within the first year, and thereafter 0.25% per year, so that RECOM PV Modules will produce no less than 91.25% of the nominal power in 30th year after the Warranty Start Date.

The expected power output loss shall be compared with the nominal power output as specified in the relevant Data Sheets and measured at STC.

In the case of any excess power output loss, that RECOM deems caused due to material or workmanship defects, RECOM will, at its absolute discretion, (a) repair the defective product, (b) supply a replacement product, (c) supply additional products, or (d) pay the end-user the current market value of the product.

EXCLUSIONS AND LIMITATIONS

The Limited Product Warranty and the Linear Power Output Warranty do not apply to any RECOM PV Modules subjected to:

- Misuse, improper installation and/or application not in accordance with the applicable local codes, failure to comply with RECOM's Installation Manual;
- Defects caused by improper storage, transportation, handling, assembly, operation or maintenance not in accordance with RECOM's Installation Manual;
- Repair and/or modification by a non approved technician;
- Extreme environmental conditions, lightning, flood, fire, hurricanes, whirlwinds, sandstorms, actions of third parties or other events outside the control of RECOM i.e. force majeure;
- Damages due to environmental conditions, including but not limited to improper voltage, power surges, acid rain, marine environment, pollution factors, and external corrosion.

The Limited Product Warranty and the Linear Power Output Warranty do not cover any costs associated with installation, removal and/or re-installation of the RECOM PV Modules, customs clearance or any other costs relevant to the return of RECOM PV Modules. Removal of the products must be performed in accordance with applicable local codes and RECOM's Installation Manual. No return of RECOM PV Module(s) shall be accepted, without written authorisation issued by RECOM.

CLAIM PROCEDURE

Upon discovery of any justified claim(s) covered by the Limited Product Warranty and the Linear Power Output Warranty, the Customer shall notify RECOM via registered letter or e-mail (customer@recom-solar.com), providing detailed evidence (Invoice, Proof of Delivery of the RECOM PV Modules, Serial Numbers, Photos and Technical evaluation) that will initiate the Claim Procedure. Any claim(s) under this Limited Product Warranty must be brought to RECOM's attention within three months upon identification.

TECHNICAL DISPUTES

In the event of technical disputes relevant to RECOM Warranty claims, the Customer shall consult a first-class test institute such as TÜV Rheinland, VDE, RETC, or other, to issue a technical report including test results that will be utilised in order to determine the technical aspects of the claim(s). RECOM reserves all rights to handle each and every dispute at its own discretion.

WARRANTY LIMITATIONS

Any repair and/or replacement of RECOM PV Modules, or any supply of additional RECOM PV Modules, will neither renew the Warranty Start Date, nor extend the original terms of the Limited Product Warranty and the Linear Power Output Warranty. Any claimed and replaced RECOM PV Modules shall become the property of RECOM. RECOM shall, at its own discretion, deliver another type of RECOM PV Module(s) (different in size, colour, and/or power) in the case that RECOM has discontinued producing the PV module(s) in question at the time of the claim.

FORCE MAJEURE

RECOM shall not be whatsoever liable to the Customer, or to any third-parties arising, nor responsible of any non-performance or performance delays caused from 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 labour or materials, and any other event deemed to be out of the control of RECOM.

REMARK:

"Peak Power" is the power in watt peak (Wp) generated when PV Modules reach their maximum power point under STC conditions. STC conditions are as follows:

- a) Light spectrum of AM 1.5;
- b) Irradiance at 1,000W/m²;
- c) Cell temperature at 25 degrees Celsius at right angle irradiation.

Measurements are carried out in accordance with IEC 61215 standards and conform to values of the calibrated PV Module used at the time of the RECOM PV Modules manufacture. RECOM calibrated PV Modules are certified by International Institutions and are in full compliance with IEC 60904.