



power for a better world

**Warranty conditions**

PV modules

**V4.01/2024**

EXE power for a better world

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## **Introduction**

EXE Solar (EXE) is a wholly owned company of the Yakaii Srl. group, based in Bolzano, Italy. The following Limited Warranty is hereby granted by the group's manufacturing division, Yakaii Industry Co. Ltd (Warrantor) to the first customer installing for its own use (Buyer) EXE branded photovoltaic modules (Products).

This warranty applies to all Products sold after 30 April 2023.

The Warranty Start Date is the date of initial installation of the Products by the Buyer or one (1) year after the date of production, whichever is earlier. Date of production can be obtained from EXE.

### **A. Product Warranty**

Under the terms of this warranty, Warrantor warrants EXE Products to be free from defects in material and workmanship for a period of fifteen (15) years for single glass modules and twenty-five (25) years for dual glass modules. A dual glass module is defined as having glass on both the front and rear sides of the module.

### **B. Performance Warranty**

Under the terms of this warranty, Warrantor warrants that the minimum output of the Products will be no less than those values shown in Table 1. In each case, the percent reduction in power listed in Table 1 is with respect to the nominal power output specified on the product nameplate at time of delivery ( $P_{max}$ ).

**Table 1****PERC single glass**

*Years	**Performance
0 – 1	97,0 %
1 – 2	96,5 %
2 – 3	96,0 %
3 – 4	95,5 %
4 – 5	95,0 %
5 – 6	94,5 %
6 – 7	94,0 %
7 – 8	93,5 %
8 – 9	93,0 %
9 – 10	92,5 %
10 – 11	92,0 %
11 – 12	91,5 %
12 – 13	91,0 %
13 – 14	90,5 %
14 – 15	90,0 %
15 – 16	89,5 %
16 – 17	89,0 %
17 – 18	88,5 %
18 – 19	88,0 %
19 – 20	87,5 %
20 – 21	87,0 %
21 – 22	86,5 %
22 – 23	86,0 %
23 – 24	85,5 %
24 – 25	85,0 %

**TOPCON single glass**

*Years	**Performance
0 – 1	99,0 %
1 – 2	98,6 %
2 – 3	98,2 %
3 – 4	97,8 %
4 – 5	97,4 %
5 – 6	97,0 %
6 – 7	96,6 %
7 – 8	96,2 %
8 – 9	95,8 %
9 – 10	95,4 %
10 – 11	95,0 %
11 – 12	94,6 %
12 – 13	94,2 %
13 – 14	93,8 %
14 – 15	93,4 %
15 – 16	93,0 %
16 – 17	92,6 %
17 – 18	92,2 %
18 – 19	91,8 %
19 – 20	91,4 %
20 – 21	91,0 %
21 – 22	90,6 %
22 – 23	90,2 %
23 – 24	89,8 %
24 – 25	89,4 %

**TOPCON dual glass**

*Years	**Performance
0 – 1	99,0 %
1 – 2	98,6 %
2 – 3	98,2 %
3 – 4	97,8 %
4 – 5	97,4 %
5 – 6	97,0 %
6 – 7	96,6 %
7 – 8	96,2 %
8 – 9	95,8 %
9 – 10	95,4 %
10 – 11	95,0 %
11 – 12	94,6 %
12 – 13	94,2 %
13 – 14	93,8 %
14 – 15	93,4 %
15 – 16	93,0 %
16 – 17	92,6 %
17 – 18	92,2 %
18 – 19	91,8 %
19 – 20	91,4 %
20 – 21	91,0 %
21 – 22	90,6 %
22 – 23	90,2 %
23 – 24	89,8 %
24 – 25	89,4 %
25 – 26	89,0 %
27 – 28	88,6 %
28 – 29	88,2 %
29 – 30	87,8 %

\*Years: From the Warranty Start Date

\*\*Performance: Minimum guaranteed power of the module relative to the Pmax.

The nominal power output is determined, in compliance with the international requirements of IEC 60904, under Standard Test Conditions (STC): insolation of 1000 W/m<sup>2</sup>, cell temperature of 25 °C and AM of 1.5.

## C. Warranty Conditions

### 1. General information

This warranty applicable worldwide and applies exclusively to the Buyer. Warranty claims under this warranty can only be made within the given warranty term.

### 2. Limitation of Liability

2.1 The Product Warranty and Performance Warranty does not apply in the following cases:

- Inappropriate installation (e.g. a deviation from the EXE installation instructions, improper commissioning, operation, disassembly, or re-installation of Products).
- Incorrect design and/or configuration of the system.
- Operation under environmental conditions or by procedures differing from the product specifications, the operating instructions, or the information on the specification plate.
- Glass breakage for reasons other than a defect in material or workmanship.
- System components such as connection cables, optimizers, inverters, etc. that have not been correctly connected to the photovoltaic module.
- Incorrect wiring work, incorrect installation work or incorrect handling during this work.
- Improper tests
- Other influences, e.g. soiling of the front glass, contamination or damage by smoke, salt, cleaning agents or other dirt.
- Use on mobile units such as vehicles, ships, etc.
- Force majeure, natural forces, and other unforeseen circumstances beyond Warrantor's control, in particular earthquakes, typhoons, hurricanes/cyclones, volcanic eruptions, floods, lightning, snow damage (due to the maximum snow load specified in the operating manual being exceeded), nuclear events, etc.
- Cell microcracks resulting from inappropriate transport, installation, and operation.
- External scratches or aesthetic defects in appearance including chromatic variations in the photovoltaic cell and/or photovoltaic module which do not impact the module performance.

2.2 There is a tolerance limit for the dimensions and performance of the modules.

Measurements within these tolerances do not justify a warranty claim.

Tolerances for the length measuring in mm:	<50	=+/-2
	50-400	=+/-3
	400-1000	=+/-4
	1000-2000	=+/-6

In all measurements of actual power output including P<sub>max</sub>, the effect of test uncertainty needs to be considered as per IEC 61215.

2.3 Claims under the terms of the warranty are not transferable to third parties.

### 3. Warranty

- 3.1 If a warranty claim occurs within the terms of this warranty, Warrantor will, at its sole discretion, either repair or replace the product. Alternatively, Warrantor also reserves the right to provide a refund in accordance with the current and market manufacturer's price of the product instead of repair or replacement. In case that the module type is no longer in production at the time of the warranty claim, Warrantor reserves the right to supply a different module type that meets the minimum performance specifications of the replaced module. The type of module may differ in size, shape, color, operating condition and/or performance. For new delivered Products, the remaining term of the original warranty period applies.
- 3.2 Subject to the limitations under applicable law, the limited warranties set forth herein are expressly in lieu of and exclude all other express or implied warranties, including but not limited to warranties of merchantability and of fitness for particular purpose, use or application, and all other obligations or liabilities on the part of Warrantor, unless such other warranties, obligations or liabilities are expressly agreed to in writing signed and approved by Warrantor. Warrantor 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, including, without limitation, any defects in the module, or form use or installation. Under no circumstances shall Warrantor be liable for incidental, consequential or special damages, howsoever caused. Loss of use, loss of profits, loss of production, loss of revenues are therefore specifically but without limitation excluded.

### 4. Claim Process

- 4.1 All warranty claims must be reported to EXE in writing immediately after they occur or are detected.
- 4.2 If the warranty is claimed, evidence of purchase must be available, in particular an original purchase receipt. Serial number and a product label must not be damaged.
- 4.3 Whether a warranty case exists, with respect to power output, is determined by the STC (standard test conditions) valid at the beginning of the warranty. The STC include the industry-general framework conditions with which the power of a photovoltaic module is measured (see also the IEC 61212 Standard). The power is expressed in watts peak (Wp). It is the Buyer's responsibility to perform this technical investigation.
- 4.4 The Buyer is required to return the Products replaced under warranty to EXE if requested by EXE. Affected Products may only be returned with the previous written consent of EXE.
- 4.5 This warranty and any dispute arising out of or in connection with this warranty shall be governed by the laws of Italy. With the exception of the United Nations Convention on Contracts for the International sale of Goods (CIS) and the conflict of law provisions, the competent court of jurisdiction for all the disputes arising from this contract is Italy.

Warranty terms

PV Modules

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