



**Warranty conditions**  
PV modules

V1.01/2022

KS Knecht Solar

**Table of contents**

Introduction .....	2
A. Product warranty.....	2
B. Warranty against a reduction in the performance of the cells (performance warranty)....	2
C. Warranty Conditions .....	3
1. General information.....	3
2. Limitation of liability.....	4
3. Guarantee .....	5
4. Making use of the warranty	

## Introduction

Knecht Solar (KS) provides A) a product warranty and B) a performance warranty, which is intended as a guarantee against a reduction in the performance of the cells on KS series photovoltaic modules. The product warranty means that the products are free from defects in materials and workmanship.

The warranty refers to a reduction in the performance of the cells in a photovoltaic module. The general warranty conditions for both types of warranty and the conditions for any claims are explained below in Part C. Warranty Conditions.

This guarantee is granted voluntarily by KS and is independent of the statutory warranty claims, which only apply to the seller of the photovoltaic modules. Claims of this kind are neither limited by our warranty nor established against us unless there is a direct purchase contract with us.

### A. **Product warranty**

Under the terms of this warranty, KS series photovoltaic modules to be free from defects in materials and workmanship for a period of then (10) years. Junction boxes are excluded from this warranty.

The product warranty is valid from the date of sale to the customer (starting one (1) year after the date of production). Details of this date can be obtained from KS.

### B. **Warranty against a reduction in the performance of the cells** (Performance Warranty)

The performance warranty is a guarantee against a reduction in the performance of the cells and is valid from the date of sale to the customer (starting one (1) year after the date of production).

Details of this date can be obtained from KS. In each case, the reduction in power (see Table 1 here below) refers to the rated power specified at the time of delivery.

The performance guarantee will not be effective if the reduction in performance is caused by damage or defects to module components, such as module glass, module frame, junction box, bypass diodes, cables, connectors, encapsulation (EVA) and mirror layer on the back.

Table 1

*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 %

\*Years: Years since the date of sale or the date of production

\*\*Performance: Power of the module in relation to the specified rated power

## C. **Warranty conditions**

### 1. General information

- 1.1 This warranty applies exclusively to the customer. The terms of the warranty do not apply to dealers or installation companies. Customers are all buyers of modules who have purchased the photovoltaic modules for their own use.

1.2 This warranty is applicable worldwide.  
 Warranty claims under this warranty can only be made within the given warranty term. An extended term

is excluded unless otherwise agreed with KS.

2. Limitation of liability

2.1 This warranty applies only if the photovoltaic modules are used, installed, and operated appropriately and in a correct manner. The warranty is only valid if the efficiency of the photovoltaic modules has not been reduced by measures or events beyond the control of KS. This applies in particular to defects in a photovoltaic module that are caused by:

- Inappropriate installation (e.g. a deviation from the installation instructions available on the company's website), commissioning or operation or improper disassembly or re-installation of photovoltaic modules;
- Incorrect design and/or configuration of the system;
- Operation under conditions of the environment or by procedures differing from the product specifications, the operating instructions or the information on the specification plate;
- Glass breakage;
- Plant parts, devices and system components such as bypass diodes, connection cables, inverters or similar that have not been correctly connected to the photovoltaic module;
- Incorrect wiring work, incorrect installation work or incorrect handling during this work;
- Inappropriate 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 KS 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.

2.2 Micro-cracks may occur in the cells as a result of inappropriate transport, installation and operation. They are not included in the warranty.

2.3 As a result of manufacturing and material processes, differing colourings/shades may occur in all module components during operation. Therefore, no claims can be made under the terms of this warranty.

2.4 There is a tolerance limit for the following deviations in the dimensions and performance of the modules. They are therefore considered as agreed and do not justify a warranty claim

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

Measurement tolerance of the power Pmax under STC in % =+/-3

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

### 3. Guarantee

- 3.1 If a warranty claim occurs within the terms of this warranty, KS will at its sole discretion, either repair or replace the product. KS also reserves alternatively the option to provide a refund in accordance to 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, KS reserves the right to supply a different module type. The type of module may differ in size, shape, color, operating condition and/or performance. For new delivered photovoltaic modules, the remaining term of the original warranty period applies.
- 3.2 Further claims under this warranty are excluded, whereby this exclusion also applies to claims being directly related to the repair. In particular, if the customer is entitled to warranty, the customer shall not be entitled to compensation for the lost feed-in tariff during this period.

### 4. Making use of the warranty

- 4.1 All warranty claims must be reported to the seller or KS 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 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 Customer's responsibility to perform this technical investigation.
- 4.4 Affected photovoltaic modules may only be returned with the previous written consent of KS.
- 4.5 The Customer is obliged to return the replaced older KS photovoltaic modules to KS at his own expense.
- 4.6 This warranty and any dispute arising out of or in connection with this warranty shall be governed by the laws of the PRC. 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 the PRC.

This warranty applies to our series photovoltaic modules delivered between 10/06/22 and the date on which new warranty terms enter into force.

Warranty Terms  
PV-modules V1.01/2022

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