

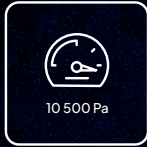
SOLID Solrif

60 cell

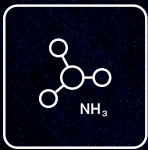
In-Roof_Glass/Glass_Full_Black



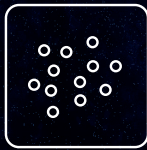
Fire class A



Extreme load resistance



Ammonia resistance



Salt mist resistance



98% recyclable



Hail resistance class 4



35% of recycled glass content



Positive sorting up to +5W

Front side ⚡ 370 W

Deutsches
Institut
für
Bautechnik

DIBt



30 Year module warranty

87% Power warranty

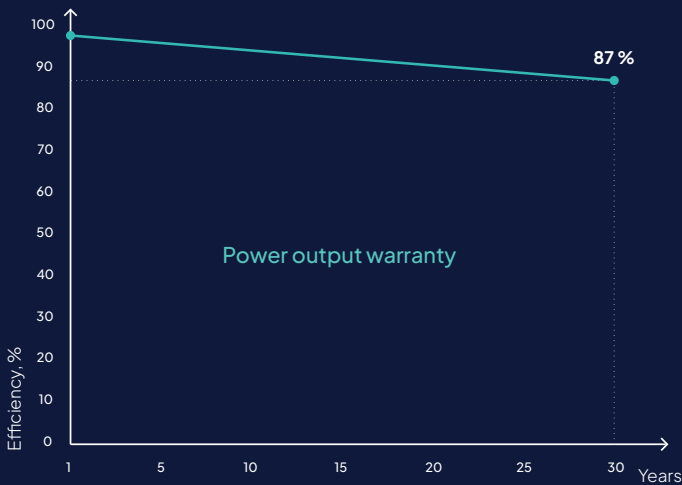
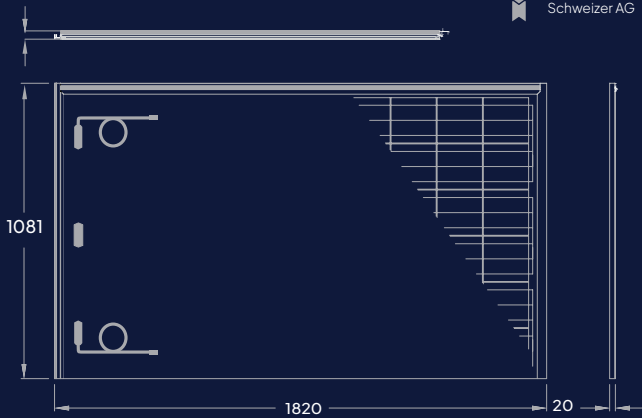
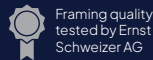
30 Year efficiency warranty

Electrical data (STC*)	
Maximum power (W)	370
Cell technology	Bifacial
Open circuit voltage (V_{oc}/V)	40,50
Short circuit current (I_{sc}/A)	11,18
Max power voltage (V_{mpp}/V)	34,86
Max power current (I_{mpp}/A)	10,62
Module efficiency (η)	18,80%
Max system voltage (V)	1000
Max current (A)	20
Power tolerance	0/+5W

*Under standard test conditions (STC) of irradiance of 1000W/sq.m., spectrum AM1.5 and cell temperature of 25°C. Flash testing measurement accuracy of +/-5%.

Warranty	
30 years module warranty	
30 years efficiency warranty	
First year degradation (%)	2 %
Annual degradation (%)	0.379 %
Power in year 30 (%)	87 %

3600/10500 Pa



Temperature ratings	
Current temperature coefficient (α)	+0.036% / °C
Voltage temperature coefficient (β)	-0.265% / °C
Power temperature coefficient (δ)	-0.362% / °C
Nominal operating module temperature	46 °C
Mechanical data	
Dimensions (LxWxH) (mm)	1820x1081x20
Grid dimensions (LxW) (mm)	1802x1049
Weight (kg)	35
Front glass (mm)	3
Back glass (mm)	3, black
Cell Size (mm)	166x166
Busbars	9
Cell configuration	6x10
Frame	Solrif D
Rated operating altitude	Up to 2000 m
Operating temperature (°C)	-40 ÷ +85
Maximum test load (wind/snow) (Pa)	3600/10500
Junction box / IP class	Split junction box / IP68
Cable cross section size (mm ²)	4
Cable length	1,2 m
Bypass diodes	3
Connector	MC4-EVO2

Packing information	
Modules per pallet	25 pcs
Dimensions of a pallet (LxWxH)	1900x1170x1070 mm
Weight of a pallet (gross)	911 kg
Pallets per 13.6 m truck	14 pcs
Modules per 13.6 m truck	350 pcs

Certifications**	
IEC 61215:2021; IEC 61730:2016; UL 61730:2017	
Cradle to Cradle (C2C)	Gold level
abZ/aBG	Overhead Glazing
IEC 62716:2013	Ammonia corrosion testing
IEC 61701:2020	Salt mist corrosion testing
IEC 61215-2:2016	39mm hailstone - Hail resistance class 4 (HW4)
ISO 9001:2015	Quality management systems
ISO 14001:2015	Environmental management systems
ISO 45001:2018	Occupational health and safety
SundaHus	A level assessment
Produced using 100% renewable energy	
Membership at Svensk Solenergi	

**Product certificates issued for SOLID Bifacial



This datasheet is not legally binding. The manufacturer reserves the right to make changes to product specifications and / or product features without prior notice. The most recent versions of all documents (T&C's, datasheets, warranties and installation manuals) can always be found on our website at www.solitek.eu

The manufacturer of the system, Ernst Schweizer AG, provides a 10 year warranty on materials supplied for the Solrif roof integrated PV mounting system. The warranty agreement of Ernst Schweizer AG does not refer to the solar modules and the terms of warranty of Soli Tek cells UAB.



CRADLE TO CRADLE
PRODUCTS
I N N O V A T I O N
I N S T I T U T E

LICENSED MARKS:



Cradle to Cradle Certified™ Silver

THE LICENSED MARKS IDENTIFIED ABOVE MAY BE LICENSED TO:

SoliTek Cells

FOR THE BELOW LISTED CERTIFIED PRODUCTS ASSOCIATED WITH THE NAME:

Glass-glass solar modules

Peter Jempton

Cradle to Cradle Products Innovation Institute

Only the following products are considered Certified Product(s) within the scope of this certification and the associated Trademark License Agreement:

SoliTek SOLID Module

START DATE

16 June 2020

CERTIFICATION #

4456

EXPIRATION DATE

15 June 2022

LEAD ASSESSMENT BODY:
Eco Intelligent Growth



MATERIAL HEALTH ASSESSMENT BODY:
MBDC



Certified under Version 3.1 of the Cradle to Cradle Certified™ Product Standard
Use of Licensed Marks is subject to terms and conditions of the C2CPII Trademark License Agreement and Trademark Use Guidelines.
Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute

SOLITEK SOLID PHOTOVOLTAIC MODULE LIMITED WARRANTY TERMS

Last updated 2022-03-25

1. Definitions

Manufacturer - Soli Tek Cells UAB, a company organized and existing under the laws of the Republic of Lithuania, with its head office located at 6A Mokslininkų str., Vilnius, LT-08412, Lithuania, company code 302427915, telephone:+370 5 263 8774, e-mail: info@solitek.eu;

Sales representative – Partner, Distributor per Agent appointed by Manufacturer and/or the Seller having the right to sell the Product and appointed by Distributor;

Product – SoliTek SOLID series Photovoltaics PV module (s) Manufactured and sold directly or through Sales representatives;

Customer – natural or legal person who have purchased the Products directly from Manufacturer or from the Sales representative of Manufacturer.

2. General

This warranty is provided by Manufacturer to the final Customer. Warranties are granted only to the final Customer. Warranties do not apply to Sales representatives, and installation companies or second-hand purchasers of the Product. Warranties can be applied to Sales representatives in the case they act as the final Consumer that puts the Product into use. The warranties are valid within the European countries.

3. 30 years product warranty

Manufacturer warrants to the Customer that the Product shall be free from defects in materials and workmanship under normal application, use and service conditions during the period beginning on the earlier of the date the Product was purchased by the Customer, but not later than 12 (twelve) months after the date of manufacture (the “Warranty Start Date”) and ending 30 (thirty) years after such Warranty Start Date. If Product fails to conform to this Limited Product Warranty during this thirty-year period under normal application, installation, use and service conditions, Manufacturer will, at its reasonable option, either (a) repair or replace the defective Product to the Customer for replacement Product or parts, or (b) provide the Customer with a refund equal to the current market price of a comparable Product at the time of the Customer’s claim. This “30-year Limited Product Warranty” does not warrant a specific power output, which shall be exclusively covered under Section 4 hereinafter (“30-year Linear Performance Warranty”).

4. 30 years linear performance warranty

Manufacturer warrants that for a warranty period of 30 years the actual power output of the Product will be no less than:

- For mono-crystalline silicon modules - 98% of the name plate power during 1st year. The maximum annual power degradation can be up to 0.379% in each of the remaining 29 years, so that during 30th year at least 87% of the nameplate power as specified on the Product will be achieved.

- For bifacial P-type mono-crystalline silicon modules - 98% of the name plate power during 1st year. The maximum annual power degradation can be up to 0.379% in each of the remaining 29 years, so that during 30th year at least 87% of the nameplate power as specified on the Product will be achieved.
- For bifacial N-type monocrystalline silicon modules - 98% of the name plate power during 1st year. The maximum annual power degradation can be up to 0.275% in each of the remaining 29 years, so that during 30th year at least 90% of the nameplate power as specified on the Product will be achieved.

The power output values shall be those measured under standard test conditions as follows: (a) light spectrum of AM 1.5; (b) an irradiation of 1000 W per m² and; (c) a cell temperature of 25 degrees centigrade at right angle irradiation. If Product does not meet the warranted power output levels set out above when measured by Manufacturer or by a Manufacturer recognized and approved third-party testing institutes under standard test conditions (IEC 61215) taking into account minus tolerance range of 5%, Manufacturer will, at its sole and absolute discretion, either (i) repair the Product; (ii) supplement such deficiency in power by either: (a) providing additional Product to the Customer, or (b) replacing Product; or (iii) refund the difference between guaranteed minimal power output and actual power output (measured under Standard Test Conditions) multiplied by the current market price of Product or a comparable model at the time of the Customer's claim.

5. Assertion of claims

The assertion of claims under this Limited Warranty presupposes that the Customer has (i) informed Sales representative of the Product in writing of the alleged claim, or that; (ii) this written notification has been sent directly to address listed in Clause 1 in the event that Sales representative no longer exists (e.g. due to discontinuance of business or bankruptcy).

The law of the Republic of Lithuania is applied to this Warranty.

6. Performance of the warranty services

In all cases Manufacturer shall have the choice as to how warranty claims are settled. Manufacturer may use the services of a customer service unit or a service partner for this purpose.

Manufacturer shall only accept liability under the Performance Warranty if the performance parameters measured in the STCs (Standard Test Conditions) are not achieved.

The Product sent to Manufacturer in the course of the RMA process shall remain the property of the Customer until any inspection has been completed. If during the warranty a replacement takes place, the ownership of the Product passes to Manufacturer.

If Manufacturer supplies replacement or additional Product on the basis of these warranty terms and conditions, the replacement or additional Product may be of a similar or equivalent type from the Product range available at the time of the claim as long as they are suitable for the intended purpose and if the original Product type is no longer available. In the event of glass breakage a static calculation to verify the substructure is an additional prerequisite for exercising a claim under the warranty.

For newly supplied or repaired Product, only the remaining time of the original warranty period shall apply.

7. Exclusion of the product and performance warranty

Irrespective of contributory root causes, this warranty does not cover the following cases:

- incorrect usage, modifications of the Product, transportation or incorrect handling (cf. information set out in the relevant added Product information installation instructions);
- errors relating installation, use, e. g. through breach of installation and operating manual, incorrect static, etc.;
- incorrect system configuration, e. g. installation of mutually incompatible Products as well as inadequate system design, particularly incompatible inverter;
- incorrect or inadequate servicing or maintenance work (cf. information set out in the relevant added Product information);
- damages caused by environmental sources, such as pollution of any kind as well as fire, explosion, smoke or charring;
- cracking of the front glass surface due to external shock from flying objects or external stress.
- damages caused by acts of nature (which are outside the normal operating conditions of the PV modules), especially lightning, hail, frost, snow, storms etc. or damages caused by acts of violence, vandalism etc.;
- damages to the photovoltaic system in which Product is installed, or caused by factors such as voltage fluctuations, power peaks, excess voltage, power failure etc.;
- scratches, marks, mechanical wear, rust, mould, degradation, discoloration and other changes which occur after the delivery of Product but which do not result in any adverse effect on the mechanical stability of the product or a reduction of performance which exceeds the levels set out in the performance warranty;
- The serial number or Product label has been removed, changed, deleted or made unrecognizable or if it is no longer clearly distinguishable for other reasons beyond Manufacturer's control and therefore it is not possible to conclusively identify the Product;
- This warranty does not apply for Product which is used on mobile carriers such as motor vehicles or ships. The same applies to the usage of Product in high snow loads where the conditions of use exceed the specifications set out in the relevant Product information.

8. OTHER LIMITATIONS AND CONDITIONS

The remedies set forth in this Limited Warranty shall be the sole and exclusive remedies provided under the standard warranty, unless otherwise agreed by Manufacturer in writing.

The Products must be installed according to the Product's mounting instructions, otherwise this warranty will be void. The Limited Warranty set forth herein do not apply to any Product which in Manufacturer's sole judgment has been subjected to cases listed in Section 7. Cosmetic defects stemming from normal wear and tear of Products are not covered by the Limited Warranty.

Manufacturer shall have no responsibility or liability whatsoever for loss of profit or revenue, loss of data, cost of capital, down-time costs, costs of substitute goods, 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 Products, including, without limitation, any defects in the Product, or from use or installation.

9. Severability

If a part, provision or section of this Limited Warranty, or its application to any person or circumstance is held invalid, void or unenforceable, such holding shall not affect this Limited Warranty and all other parts, provisions, clauses or applications shall remain, and, to this end, such other parts, provisions, clauses or applications of the Limited Warranty shall be treated as severable.

10. Applicable law and dispute settlement

This Limited Warranty shall be governed by and interpreted under the laws of Republic of Lithuania.

All disputes arising out of or in connection with this Limited Warranty, unless amicably settled between the parties, shall be settled by the competent courts of Lithuania, to which the Parties hereby grant with an exclusive jurisdiction. Provided that there is any inconsistency between the sale's contracts to which this Limited Warranty is attached and this article, the terms and conditions of the sales contract shall prevail.

This document constitutes part of the General Terms and Conditions and/or the signed contract.

11. Validity

These Limited Warranty terms are valid from December 21st, 2021 and shall apply to all PV Module(s) sold to a Customer on or after this date.

This Warranty becomes valid immediately after PV panels provision to the customer.



Protection contre la grêle AEAI n° 32835

Demandeur
SoliTek cells
Mokslininku str. 6a
08412 Vilnius
Litauen

Fabricant
-

Groupe 121 - Toiture - modules photovoltaïques

Produit SOLID Solrif

Description Module photovoltaïque verre-verre pour solution photovoltaïque intégrée au toit.
Verre supérieur ESG 3,0 mm.
Verre inférieur ESG 3,0 mm.
Sans cadre.

Documentation SUPSI PVLab: Rapport d'essais '22-080/A-REP1-rev1' (19. Dezember 2022)

Conditions d'essais AEAI 25 Modules Photovoltaïques, version 1.03 du 01.11.2016

Classification Résistance à la grêle fonctionnalité RG 4
Evaluation Résistance à la grêle aspect RG 4

Remarques

Durée de validité 31.12.2028
Date d'édition 27.10.2023
Remplace l'attestation du -

Association des établissements cantonaux
d'assurance incendie

Martin Jordi

Cornelia Humm

Le chiffre attribué à la fonctionnalité correspond à la valeur minimale entre les fonctions suivantes:

Translucidité	RG --	Mécanique	RG 4
Protection de lumière	RG --	Étanchéité	RG --