

Solar Module

Glas-60 without frame

310 Wp bifacial (efficiency up to 360 Wp)



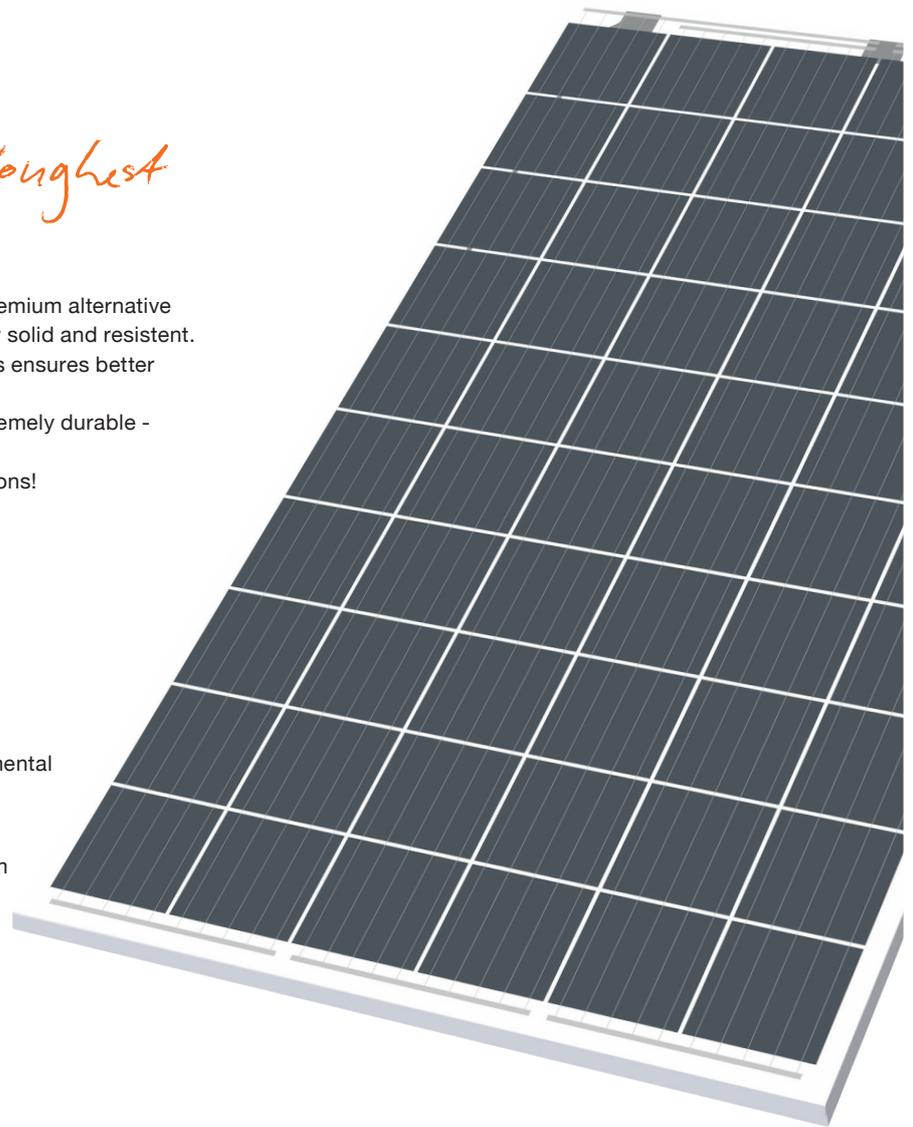
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SONNENKRAFT

EXTREME! For the toughest applications

The glass glass module from KIOTO SOLAR ist the premium alternative for onroof or free-standing PV systems. It is extremely solid and resistant. Due to the frameless design, there is no jam edge: this ensures better self-cleaning, the snow slips off more easily. Thanks to its special glass compount system it is extremely durable - also against extreme environmental influences. It can be used for households or large-scale applications!

Advantages:

- // Extremely solid: improved cell protection against dynamic load due to glass on the backside
- // Extremely resistant: also against extreme environmental influences
- // No jam edge, less pollution
- // Extremely durable: special glass compount system
- // Extreme fire-resistance class because of double glazing
- // Extremely efficient: up to 360 Wp efficiency due to bifacial cell technology



GLASS-60 WITHOUT FRAME

KPV GML NEC 310 Wp bifacial (efficiency up to 360 Wp)

Module specifications

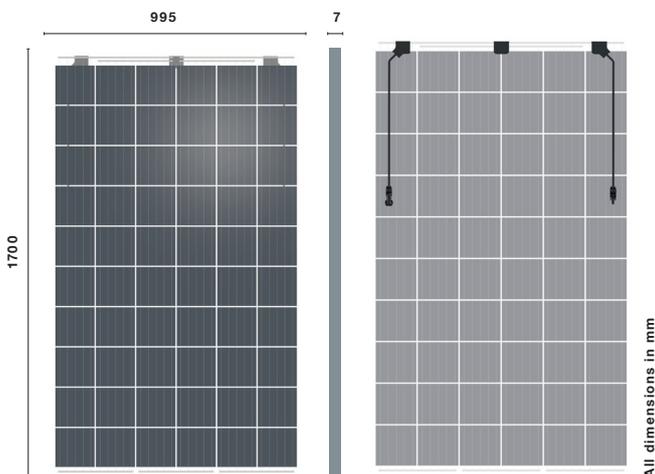
	Pmpp _[Wp]	Umpp _[V]	Impp _[A]	Uoc _[V]	Isc _[A]	efficiency	area per kWp
310 Wp bifacial	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33 m ²

Electrical data

60 crystalline, bifacial cells	157mm x 157mm
Connecting System	Decentralized connecting concept (3 pcs.), MC4 — plug in connector 4 mm ²
Max. system voltage	1000V DC
Power tolerance	(+5W/-0W) Measurement: STC (standard test conditions)
Temperature coefficients	Pmpp -0,42 %/K Uoc -0,32 %/K Isc +0,047 %/K
Max. reverse over current	15 A
Operation temperature	+85°C up to -40°C
Cable length	2 x 350mm
Bypass diodes	3 pcs.
Efficiency guarantee	min. 97% in the first year, afterwards max. 0,70 % reduction p.a. up to 25 years
Product guarantee	12 years

Technical data

incl. frame	1700mm x 995mm x 7mm (+/- 3 mm)
Weight	27,5kg
Glass specification	Front: 3mm / Back: 3mm
Test certificate	IEC 61215, Ed. 2 incl. mechanical load test up to 5400Pa, IEC 61730; IP 65
Packaging	15 modules / pal., 420 modules / truck



Surplus for glass glass modules
 // +30% surplus efficiency thanks to bifacial cell technology

Bifacial cell technology
 // up to 360 Wp overall performance thanks to active module back side
 // Use of PID-resistant module components
 // LID-effect nearly 0%
 // Use of 60 high-efficiency bifacial-cells
 // extremely solid thanks to laminated safety glass

The customer carries the sole responsibility the the goods ordered and delivered are suitable for his purposes. Applicational advices, whether verbal, in writing or by making tests are conducted to the best of KIOTO Photovoltaics GmbH's knowledge, whether verbal, in writing or by way of trials or otherwise, is provided to the best of our knowledge, but without any guarantee or liability. Special technical constructions may be subject to official approval. The constructor or the client is responsible for obtaining such official approval. The customer must bear any costs caused by changes or alterations because of special technical constructions, especially for tests or calculations. A project-related, static pre-dimensioning as well as the correct use of the glasses was not carried out or tested by us.
 Measurement tolerance ±3%