

Solar Module

Glas-60 without frame

310 Wp bifacial (efficiency up to 360 Wp)



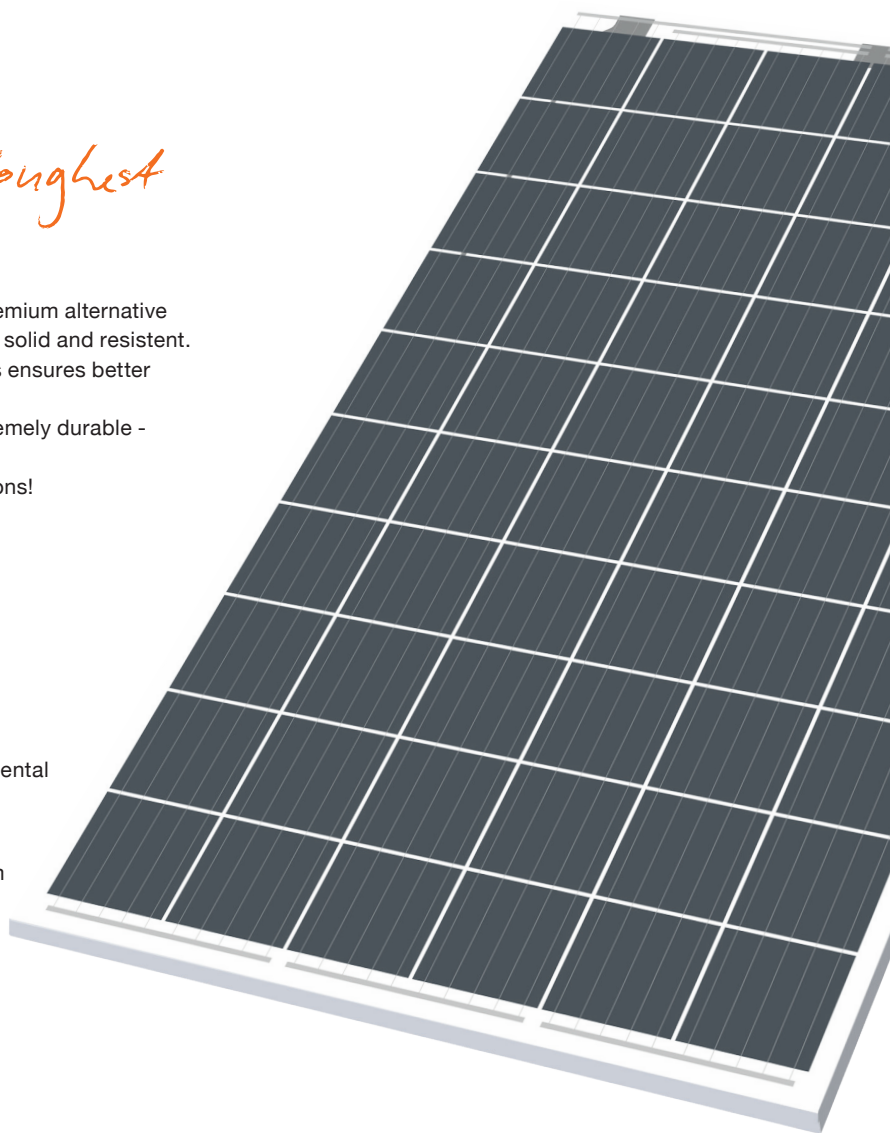
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SONNENKRAFT

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 compound 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

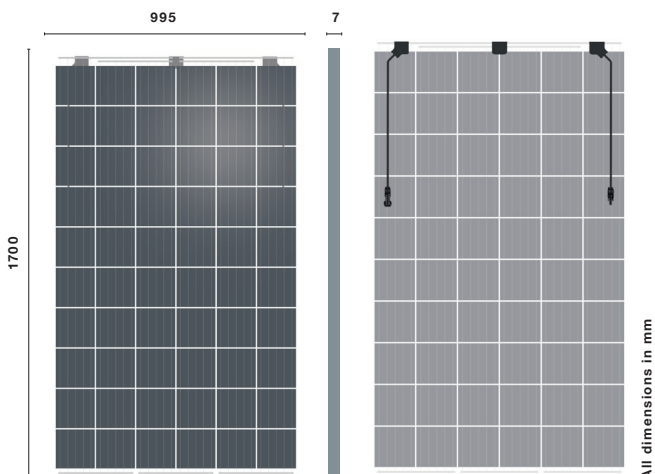
	P _{mp} [Wp]	U _{mp} [V]	I _{mp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency	area per kWp
310 Wp bifacial	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33 m ²

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	P _{mp} -0,42 %/K U _{oc} -0,32 %/K I _{sc} +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