

Solar Module

Glas-60 with frame

310 Wp bifacial (efficiency up to 360 Wp)

KIOTO
SOLAR

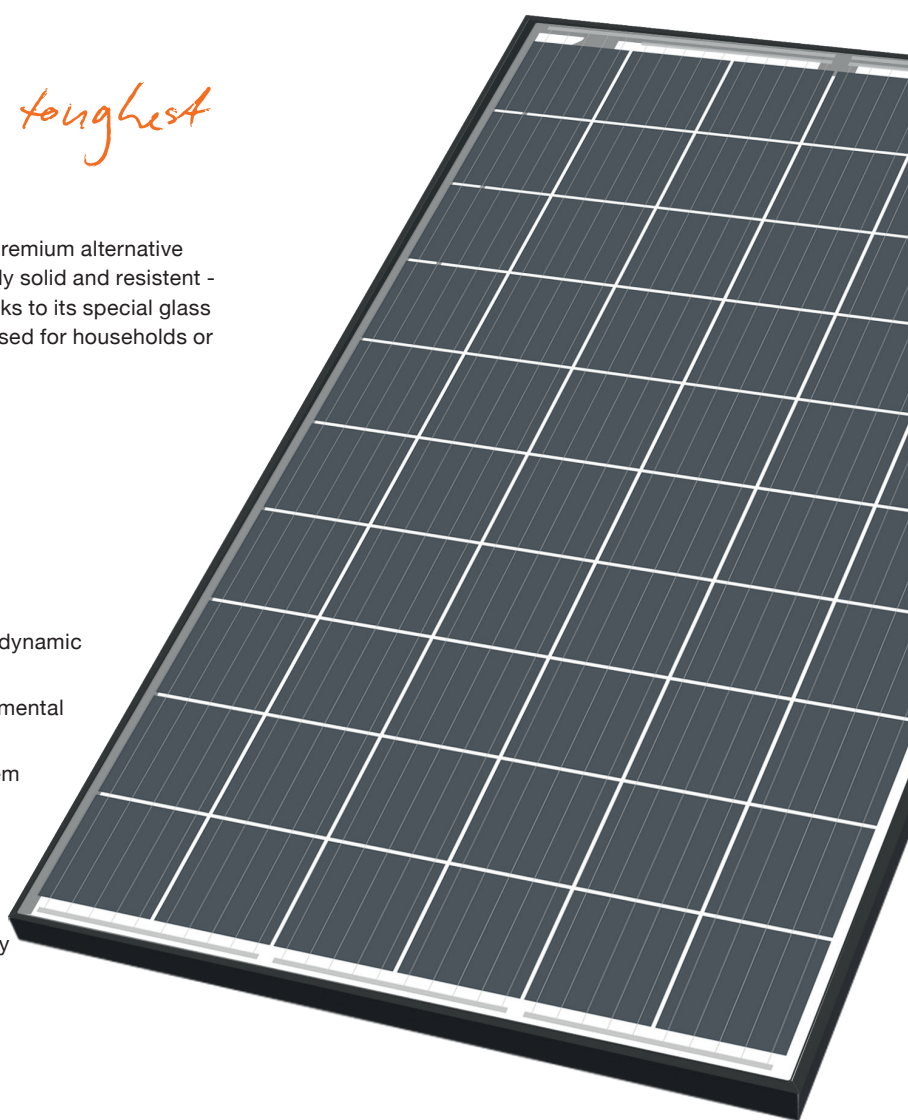
A brand of
SONNENKRAFT

EXTREME! For the toughest applications

The glass glass module from KIOTO SOLAR is the premium alternative for onroof or free-standing PV systems. It is extremely solid and resistant - also against extreme environmental influences. Thanks to its special glass compound system it is extremely durable. 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, 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
- // Intelligent black frame concept for technical safety and nice design



GLASS-60 WITH FRAME

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

Module specifications

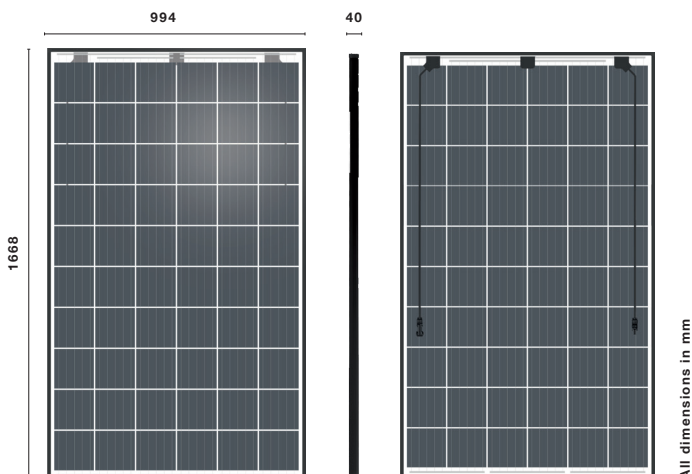
	Pmpp _[Wp]	Ump _[V]	I _{mp} _[A]	U _{oc} _[V]	I _{sc} _[A]	efficiency rate	area per kWp
310 Wp bifacial	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33 m ²

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 I _{sc} +0,047 %/K
Max. reverse over current	15 A
Operation temperature	+85°C up to -40°C
Cable length	2 x 1000 mm
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	20 years

Technical data

incl. frame	1668mm x 994mm x 40mm (+/- 2 mm)
Weight	21kg
Glass specification	Front: 2mm / Back: 2mm
Test certificate	IEC 61215, Ed. 2 incl. mechanical load test up to 5400Pa, IEC 61730; IP 65
Packaging	24 modules / pal., 720 modules / truck

**Surplus for glass glass modules**

- // 20 years surplus guarantee
- // +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