

Solar Module

Glass-60 without frame

310 Wp bifacial (efficiency up to 360 Wp)



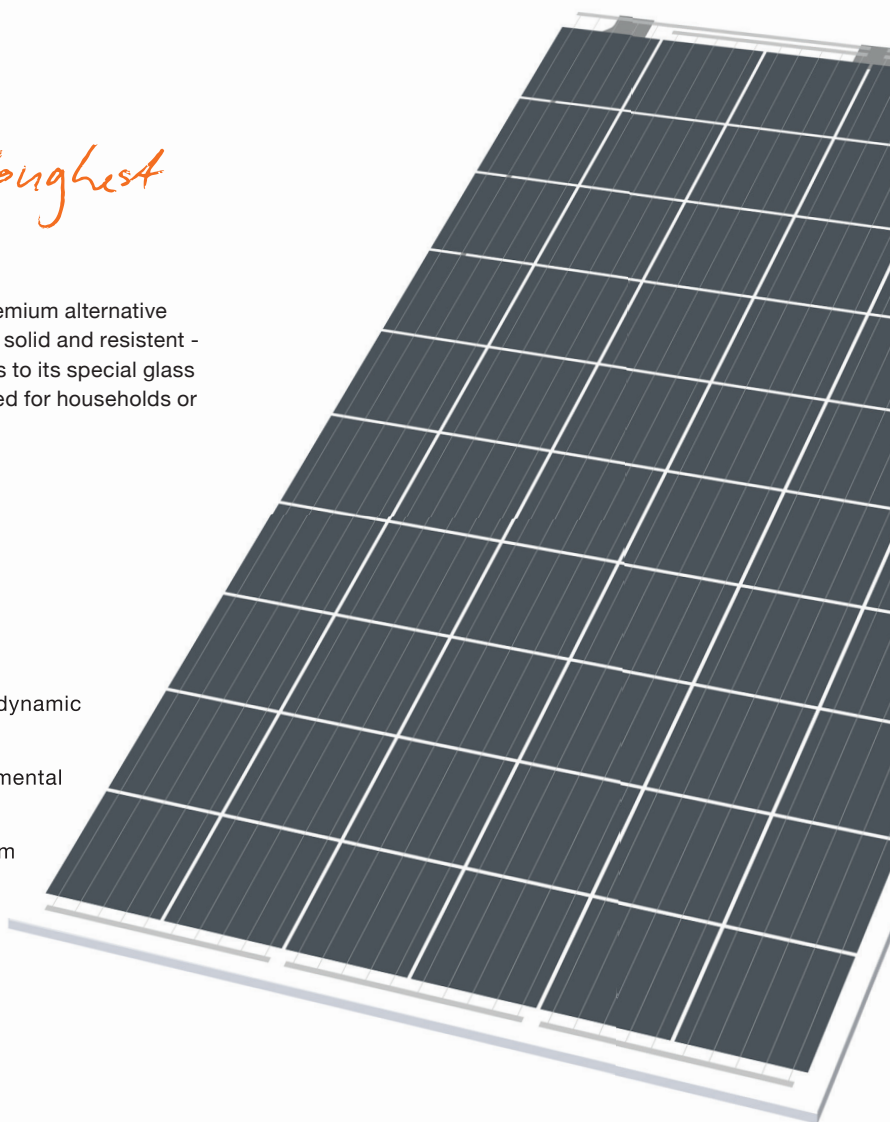
Eine Marke von
SONNENKRAFT

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 - 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



GLASS- 60 WITHOUT FRAME

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

Module specifications

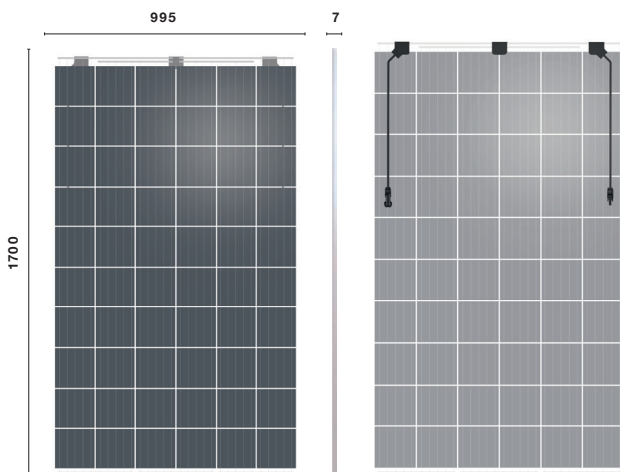
Type	P _{mp} [W _p]	U _{mp} [V]	I _{mp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency rate	area per kWp
310 mono/bifacial	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33 m ²

Electrical data

60 crystalline cells	157mm x 157mm
Connecting System	Decentralized connecting concept (3 pcs.), MC4 — plug in connector 4mm ²
Max. system voltage	1000V DC
Power tolerance	(+ 5 W / - 0 W) 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 bis -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 5400 Pa, 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