SOLID Framed Glass / Glass

OUR FLAGSHIP SOLAR PANEL

We are introducing the next generation bifacial solar panel BLACKSTAR



Cradle to Cradle CertifiedTMAssessment Categories

SILVER



Ammonia resistance



Salt mist



Dust & sand



Fire class A

Positive sorting up to +5W

Bifacial \$360W

Product warranty

Power guarrantee

Efficiency guarrantee

**SOLI**STEK

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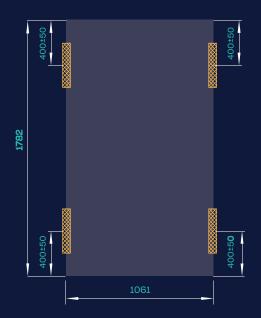
## BLACKSTAR

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Electrical data (STC*)		
Maximum Power	360	
Cell Technology	Bifacial	
Open circuit voltage (V <sub>oc</sub> /V)	40,11	
Short circuit Current (I <sub>sc</sub> /A)	11,08	
Max Power Voltage (Vmpp/V)	34,44	
Max Power Current (Impp/A)	10,48	
Module Efficiency (n)	19,04	
Max System Voltage (V)	1500	
Max Current (A)	20	
Power Tolerance	0/+5W	

<sup>\*</sup>Under Standart Test Conditions (STC) of irradiance of 1000W/sq. m., spectrum AM 1.5 and cell temperature of 25°C

#### **Dimensions & Mounting**



Temperature ratings	Bifacial
Current temperature coefficient (a)	+0,04% /°C
Voltage temperature coefficient (β)	-0,35% /°C
Power temperature coefficient (δ)	-0,47% /°C
Nominal Operating Module Temperature	46°C

Mechanical data	
Dimensions (LxWxH) (mm)	1782x1061x35
Weight (kg)	24
Front glass (mm)	
Back glass (mm)	2, black (optional transparent)
Cell Type	Bifacial
Cell Size (mm)	166X166
Busbars	
Frame	Black anodized aluminium frame
Operating Temperature ( C)	-40 ÷ +85
Max Load (wind/snow) (Pa)	1600/3600**
Junction Box / IP Class	Split junction box / IP68
Cable Cross Section Size (mm2)	
Cable length	1,2 m
Bypass Diodes	
Connector	MC4 compatible

<sup>\*\*</sup>Safety factor 1,5

# Clamping area for clamping on LONG side PV panel Wind 1600 (2400 test) / Snow 3600 (5400 test) Pa Dimensions are provided in milimeters

#### **Attention**

- Always check if your system is compatible with local environmental conditions (wind/snow load, temperatures) on your site to ensure safety and long-term
- By connecting less than 6 PV panels in one string there is a risk of inverter inability to start.
- Do not connect differently orientated PV panels in the same string / MPPT of the inverter (unless optimizers are used).
- Do not connect strings with an unequal amount of PV panels in one MPPT (unless optimizers are used)
- Use PV panels of same electrical parameters in one string/MPPT (unless

- Always ensure that your inverter is equipped with DC disconnector. If not it is recommended to install it externally.
- Never let different metals come in contact with each other. Use bi-metallic plates or plastic separators to eliminate galvanic corrosion.
- It is highly recommended to install SPD's in both AC and DC circuits because overvoltages void the warranty for inverters and also panels if they are harmed.
- It is highly recommended to ground PV panels and to install lightning protection in site.

### **Tips for Better Power Output**

- connection cables increase electrical energy production.
- Always observe object/mutual shading in site. Shading can drastically cut electrical energy generation output.
- Increase PV panel height from the ground so that more light can travel beneath the module and then reflect.
- The Albedo value increases significantly if modules are installed above white, lightreflecting surfaces.



















