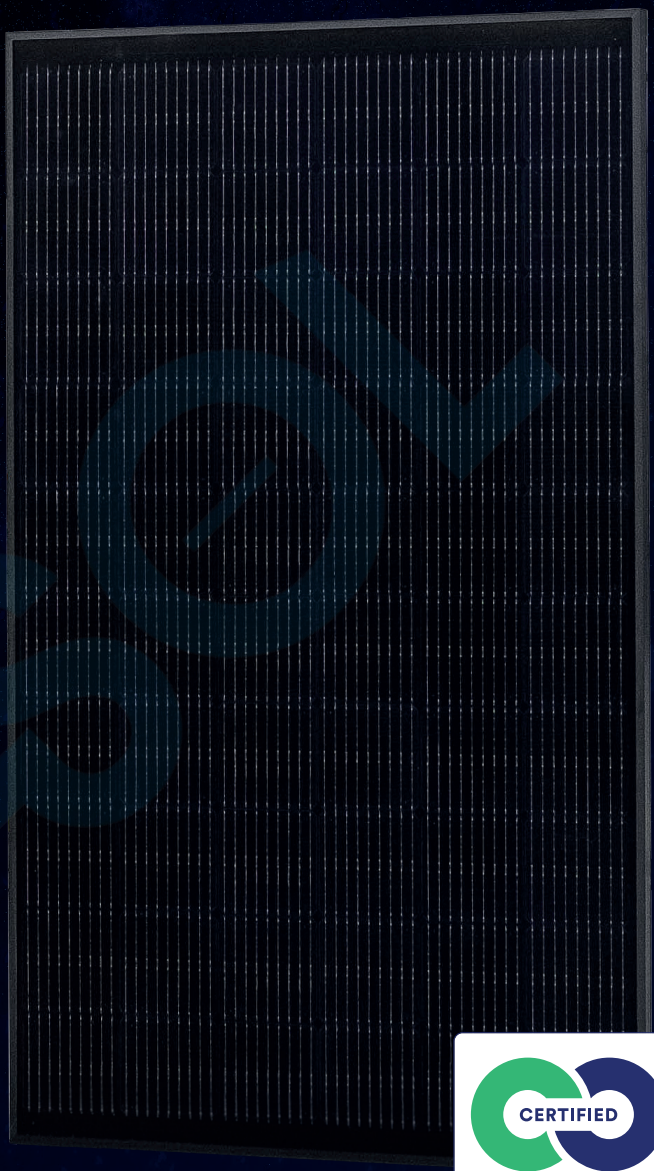
BLACKSTAR

SOLID Framed Glass/Glass

60 cell

SOLITEK — OUR FLAGSHIP SOLAR PANEL

We are introducing the next generation bifacial solar panel BLACKSTAR



- Fire class A
- Salt mist resistance
- Ammonia resistance
- Dust and sand resistance

CERTIFIED cradle to cradle SILVER

Positive sorting up to +5W

Bifacial 365 W

30	Year product warranty	87 %	Power guarantee	30	Year efficiency guarantee

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SOLSOL

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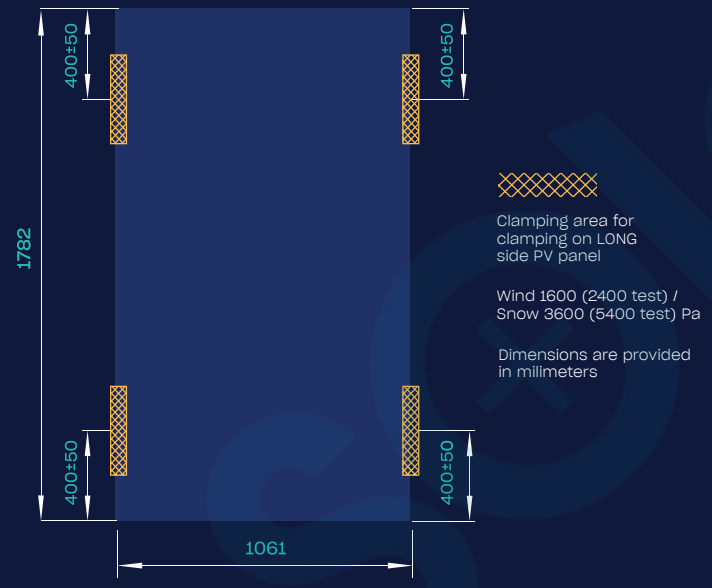
Electrical data (STC*)	
Maximum power	**365**
Cell technology	**Bifacial**
Open circuit voltage (V_{OC}/V) Short circuit current (I_{SC}/A) Max power voltage (Vmpp/V) Max power current (Impp/A) Module efficiency (η)	40,39 11,16 34,65 10,55 19,30%
Max system voltage (V)	1500
Max current (A)	20
Power tolerance	0/+5W

*Under standard test conditions (STC) of irradiance of 1000W/sq.m., spectrum AM 1.5 and cell temperature of 25°C. Flash testing measurment accuracy of +/-5%. All transparency values are approximate +/-3%.

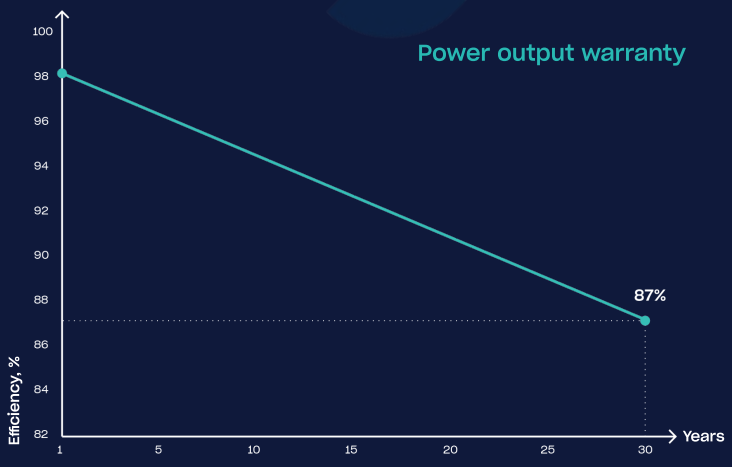
Temperature ratings	Bifacial
Current temperature coefficient (α) Voltage temperature coefficient (β) Power temperature coefficient (δ) **Nominal operating module temperature**	+0.04% / °C -0.35% / °C -0.47% / °C **46 °C**
Mechanical data	
Dimensions (LxWxH) (mm) Weight (kg) Front / Back glass (mm) Cell Type Cell Size (mm) Busbars Frame Operating temperature (°C) Design load (wind/snow) (Pa) Maximum test load (wind/snow) (Pa) Junction box / IP class Cable cross section size (mm^2) Cable length Bypass diodes Connector	1782x1061x35 mm 24 2 mm, black Bifacial 166x166 9 Black anodized aluminium frame -40 ÷ +85 1600/3600** 2400/5400 Split junction box / IP68 4 1,2 m 3 MC4 compatible

**Safety factor 1.5

Dimensions & Mounting



Power output warranty



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 energy production.

· 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 optimizers are used).

· 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 mounting system and to install lightning protection in site.

Tips for better power output

· Better module ventilation and shorter 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 the modules are installed above white, lightreflecting surfaces.