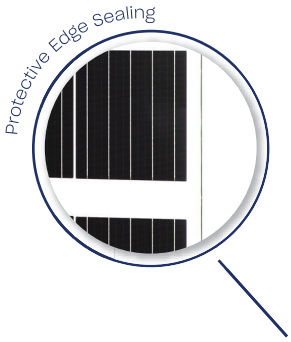
SOLID Pro

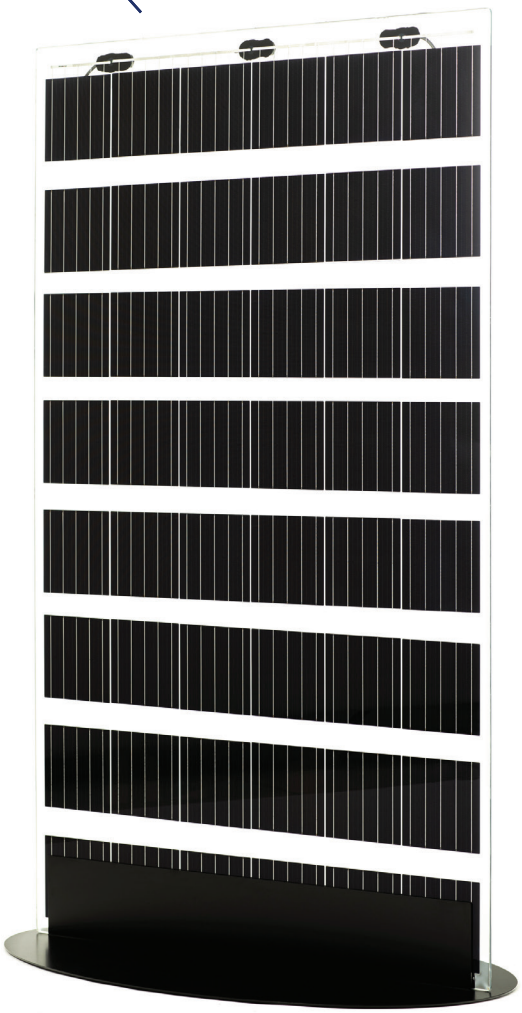
Glass / Glass

48 Cell

Frameless

CERTIFIED cradle to cradle SILVER





Self-cleaning effect

Salt mist resistance

Fire class A

Dust & Sand resistance

NH3

Ammonia resistance

Extreme load resistance

Positive sorting up to +5W

Mono 245 W

SOLITEK

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G052020-1

30	87%	30
Product warranty	Power guarantee	Efficiency guarantee

SOLID Pro — 48 Cell

Glass / Glass

Electrical data (STC*)	
Maximum Power	**245**
Cell Technology	**Mono**
Open circuit voltage (V_{oc}/V)	33,12
Short circuit Current (I_{sc}/A)	9,77
Max Power Voltage (Vmpp/V)	26,19
Max Power Current (Impp/A)	9,36
Module Efficiency (η)	13,2%
Max System Voltage (V)	1500
Max Current (A)	20
Power Tolerance	0/+5W

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

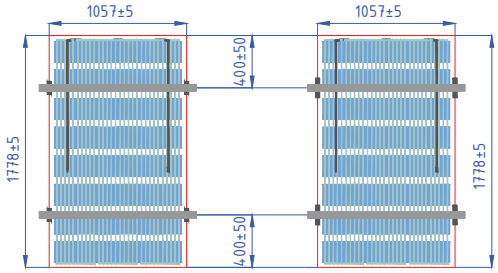
Temperature ratings	
Current temperature coefficient (α)	+0,04% /°C
Voltage temperature coefficient (β)	-0,35% /°C
Power temperature coefficient (δ)	-0,47% /°C
Nominal Operating Module Temperature	46°C

Mechanical data	
Dimensions (LxWxH) (mm)	1770x1049x7,1mm
Dimensions with edge sealing (LxWxH) (mm)	1778±5x1057±5x7,1
Weight (kg)	30
Front / Back glass (mm)	3 mm
Cell Type	Mono
Cell Size (mm)	158,75x158,75
Busbars	5
Transparency %	35
Cell configuration	6x8
Frame	Frameless
Operating Temperature (°C)	-40 ÷ +85
Max Load (wind/snow) (Pa)	1600/5330**
Junction Box / IP Class	Split junction box / IP68
Cable Cross Section Size (mm2)	4
Cable length	1,2 m
Bypass Diodes	3
Connector	MC4 compatible

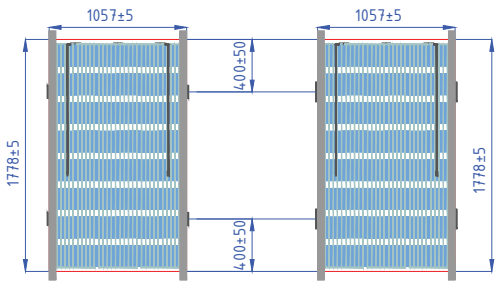
**Safety factor 1,5

Dimensions & Mounting

1600/1600 Pa**

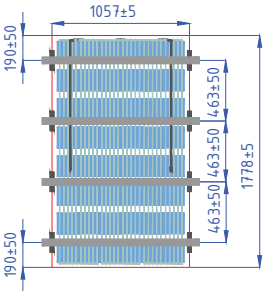


1600/3600 Pa**



Mounted in landscape configuration. Alumero fixing clamps END/MID 100mm and 150mm***

1600/5330 Pa**



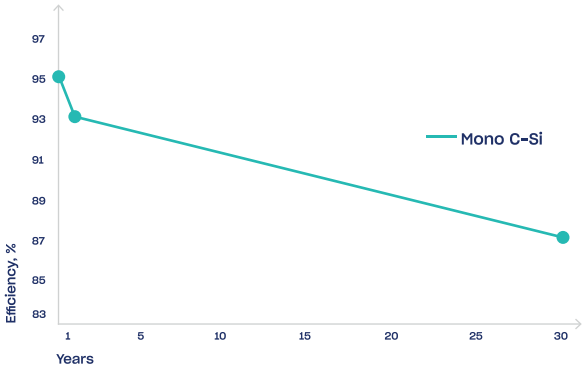
***When a module is installed in portrait orientation on the pitched roof which has >45° slope, additional hook in the bottom of the module is required

****For details please refer to SoliTek SOLID installation manual

*****If the mounting rails are installed across the module, bifaciality effect will be lower due to cells shading

Mounted in portrait configuration. Alumero fixing clamps END/MID 150mm and 200mm***

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 modules are installed above white, lightreflecting surfaces.

IEC 61215
IEC 61730

PRODUCED USING 100% RENEWABLE ENERGY

This datasheet is not legally binding. The manufacturer reserves the right to make changes to product specifications and/or product features without prior notice. The most recent versions of all documents (T&C's, datasheets, warranties, and installation manuals can always be found on our website at www.solitek.eu).