

SOLID Agro

Glass/Glass

40 cell
Frameless



Self-cleaning
effect



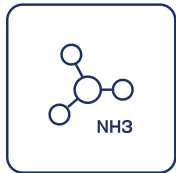
Extreme load
resistance



Fire class A



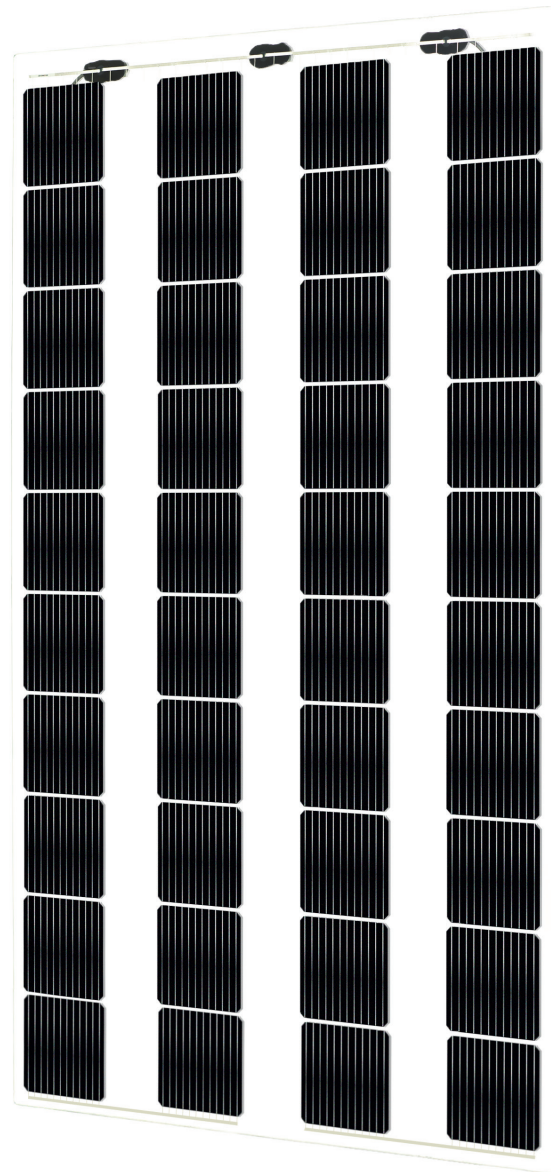
Salt mist
resistance



Ammonia
resistance



Dust and sand
resistance



Positive sorting up to +5W

Front side ⚡ 235 W

30 Year
product
warranty

87 % Power
guarantee

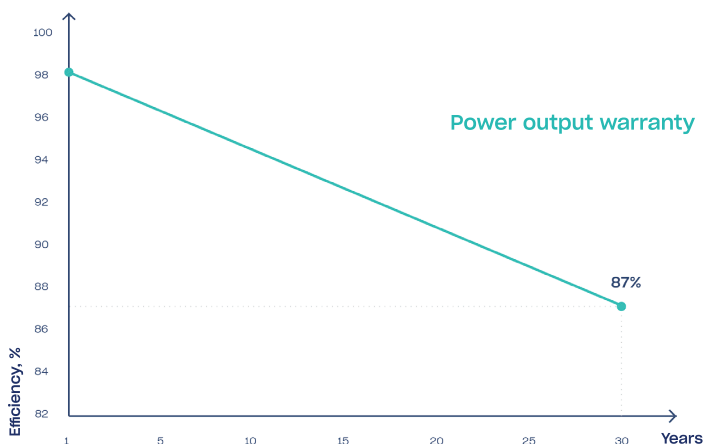
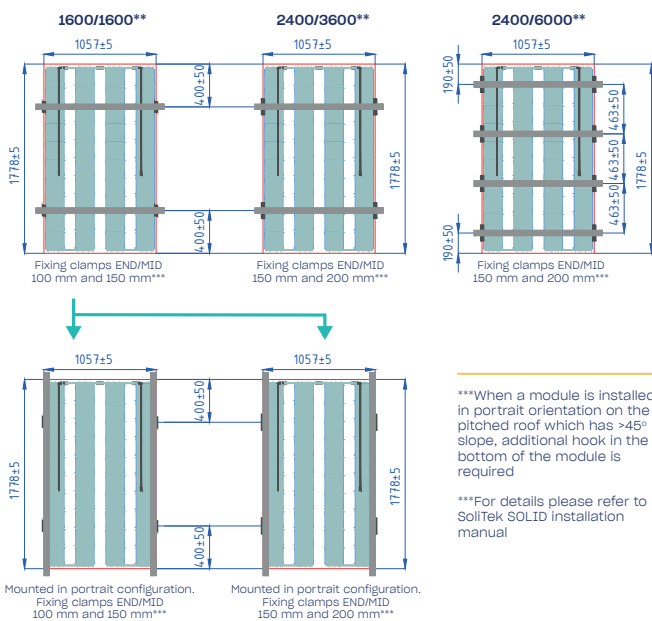
30 Year
efficiency
guarantee

| Electrical data (STC*) | |
|--------------------------------------|-----------------|
| Maximum power | 235 |
| Cell technology | Bifacial |
| Open circuit voltage (V_{oc}/V) | 26,60 |
| Short circuit current (I_{sc}/A) | 11,01 |
| Max power voltage (V_{mpp}/V) | 22,67 |
| Max power current (I_{mpp}/A) | 10,37 |
| Module efficiency (η) | 12,65% |
| 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 measurement accuracy of +/-5%. All transparency values are approximate +/-3%.

| Additional power gain | 5% | 10% | 20% | 25% |
|-------------------------|-----|-----|-----|-----|
| Total module power (Wp) | 246 | 259 | 282 | 294 |

Dimensions & Mounting



| 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) | 1770x1049x7,1 |
| Dimensions with edge sealing (LxWxH) (mm) | 1778±5x1057±5x7,1 |
| Weight (kg) | 30 |
| Front / Back glass (mm) | 3 |
| Cell Type | Bifacial |
| Cell Size (mm) | 166x166 |
| Busbars | 9 |
| Transparency % | 40 |
| Cell configuration | 4x10 |
| Frame | Frameless |
| Operating temperature (°C) | -40 ÷ +85 |
| Design load (wind/snow) (Pa) | 2400/6000** |
| Maximum test load (wind/snow) (Pa) | 3600/9000 |
| Junction box / IP class | Split junction box / IP68 |
| Cable cross section size (mm²) | 4 |
| Cable length | 1,2 m |
| Bypass diodes | 2 |
| Connector | MC4 compatible |

**Safety factor 1.5

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

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.



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