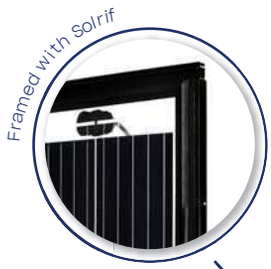
# SOLID Solrif®

## Glass / Glass

## In-Roof




- Self-cleaning effect
- Salt mist resistance certified
- Fire class A certified
- Dust & Sand resistance
- Ammonia resistance (NH3)
- Extreme load resistance

Positive sorting up to +5W

**Mono** 320W

| 30 | 87% | 30 |
|---|---|---|
| Product warranty | Power guarantee | Efficiency guarantee |

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| Electrical data (STC*) | |
|---|---|
| Maximum Power | 320 |
| Cell Technology | Mono C-Si |
| Open circuit voltage ($V_{OC}$/V) | 41,16 |
| Short circuit Current ($I_{SC}$/A) | 9,77 |
| Max Power Voltage (Vmpp/V) | 34,23 |
| Max Power Current (Impp/A) | 9,36 |
| Module Efficiency (n) | 17,68% |
| Max System Voltage (V) | 1500 |
| Max Current (A) | 15 |
| 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%

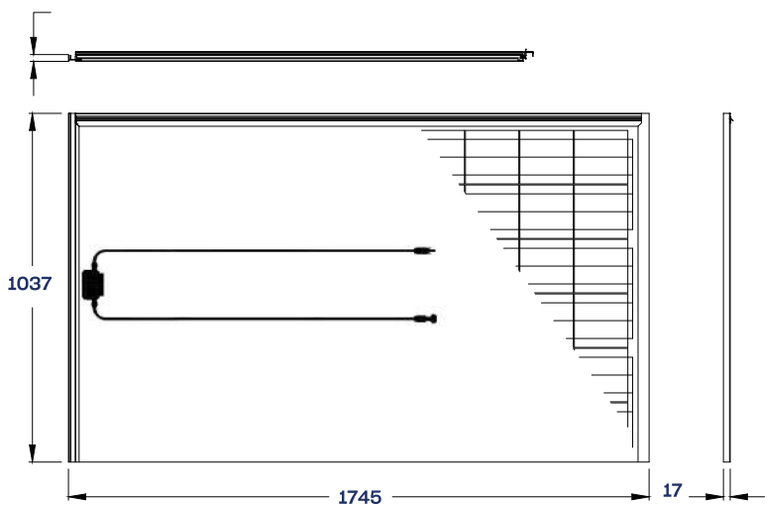
| Temperature ratings | |
|---|---|
| Current temperature coefficient (α) | +0,04% /° C |
| Voltage temperature coefficient (β) | -0,35% /° C |
| Power temperature coefficient (δ) | -0,47% /° C |
| Nominal Operating Module Temperature | 46° C |

| Mechanical data | |
|---|---|
| Dimensions (LxWxH) (mm) | 1745x1037x17 |
| Weight (kg) | 32 |
| Front / Back glass (mm) | 3 mm |
| Cell Type | Mono C-Si |
| Cell Size (mm) | 158,75x158,75 |
| Transparency % | 10 |
| Cell configuration | 6x10 |
| Busbars | 5 |
| Frame | Solrif® |
| 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) | 4 |
| Cable length | 1,2 m |
| Bypass Diodes | 3 |
| Connector | MC4 compatible |

****Safety factor 1,5**

## Dimensions & Mounting

### 1600/3600 Pa**

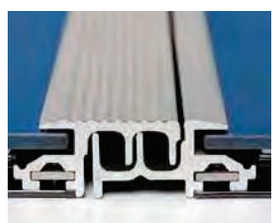



### Optimal Weather Lightness

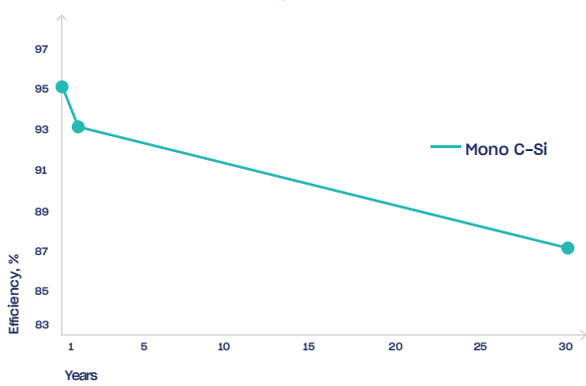
**Frames are shingled from top to bottom and are interlocking left to right much like tiles for optimal weather protection.**

### Easy Installation

**The modules are held by metal clamps that are mounted to the roof battens. This allows for quick and easy installation.**



### Power output warranty




## 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.

## 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.

IEC 61215
IEC 61730

PRODUCED USING 100% RENEWABLE ENERGY