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**Solar Panel Guide**

**Specification Data Sheet**

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Datasheet

PREMIUM BIFACIAL SOLAR MODULE

60 CELLS PRODUCT (335 W)



High efficiency HST bifacial cell technology

Excellent temperature coefficient -0,258%/K

Up to 40% bifacial module efficiency

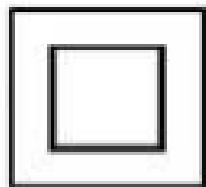
Up to 470 W nominal output bifacial

PID & LID free n-type technology

Frameless Glass-Glass module design

12 years product warranty

35 years linear performance guarantee



Mechanical properties

|                       |                                                              |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Module structure      | Glass / TPO / HST Bifacial Cells / TPO / Glass               | The new generation of PV modules is bifacial and converts light to electricity on both sides with a bifaciality factor of typically over 95 %. Choosing the optimum background and right installation settings can generate up to 40% more energy on the rear side of the module. Please consider this for the mounting system and shadow engineering. |
| Dimension (L x W x T) | 1664 mm x 996 mm x 6 mm (with junction box thickness: 26 mm) |                                                                                                                                                                                                                                                                                                                                                        |
| Weight                | approx. 23,5 kg                                              |                                                                                                                                                                                                                                                                                                                                                        |
| Cell size / type      | 156,75 mm x 156,75 mm / mono-crystalline HST bifacial        |                                                                                                                                                                                                                                                                                                                                                        |
| Cell connection       | 60 cells serial (6 x 10)                                     |                                                                                                                                                                                                                                                                                                                                                        |
| Glass                 | 2*2,5 mm tempered AR solar glass                             |                                                                                                                                                                                                                                                                                                                                                        |
| Junction box          | 3 x Tyco PV EDGE with bypass diodes                          |                                                                                                                                                                                                                                                                                                                                                        |
| Connection cables     | 4 mm², length 40 cm each                                     |                                                                                                                                                                                                                                                                                                                                                        |
| Connectors            | MC4 compatible                                               |                                                                                                                                                                                                                                                                                                                                                        |

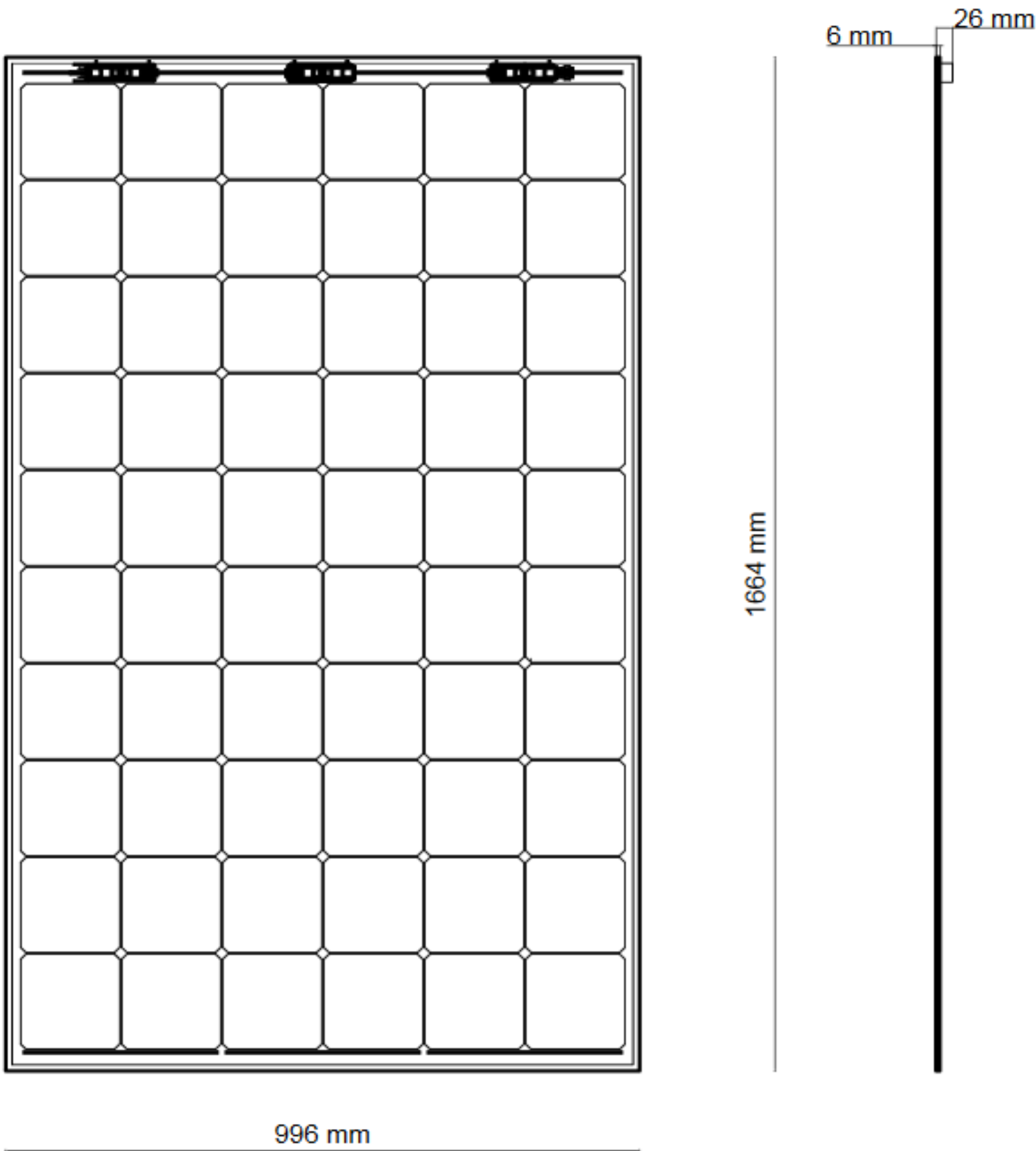
Electrical properties (front side)

|                                           |                                                        |
|-------------------------------------------|--------------------------------------------------------|
| Max power (Pmax/W)                        | 335                                                    |
| Short Circuit Current (Isc/A)             | 9,45                                                   |
| Open Circuit Voltage (Voc/V)              | 44,23                                                  |
| Max Power Point Current (Imp/A)           | 8,66                                                   |
| Max Power Point Voltage (Vm/V)            | 38,14                                                  |
| Module Efficiency (η/%)                   | 20,50                                                  |
| Temperature coefficient of Isc (α)        | + 0,029 %/K                                            |
| Temperature coefficient of Voc (β)        | - 0,224 %/K                                            |
| Temperature coefficient of Pm (γ)         | - 0,258 %/K                                            |
| Maximum System Voltage (V <sub>DC</sub> ) | 1500 V                                                 |
| Maximum series configuration              | 31 modules                                             |
| Reverse current overload                  | 30 A                                                   |
| STC according to EN 60904-3               | Irradiance 1000 W/m², module temperature 25 °C, AM 1,5 |

Electrical properties in bifacial operation

|                                               |       |       |       |       |
|-----------------------------------------------|-------|-------|-------|-------|
| Max power of front side <sup>1</sup> (Pmax/W) | 335   |       |       |       |
| Bifacial gain from rear side <sup>2</sup>     | 10%   | 20%   | 30%   | 40%   |
| Max power in bifacial operation (Pmax/W)      | 369   | 402   | 436   | 469   |
| Short Circuit Current (Isc/A)                 | 10,40 | 11,34 | 11,81 | 12,25 |
| Open Circuit Voltage (Voc/V)                  | 44,05 | 44,15 | 44,20 | 44,23 |
| Max Power Point Current (Imp/A)               | 9,53  | 10,39 | 10,83 | 11,27 |
| Max Power Point Voltage (Vm/V)                | 38,24 | 38,24 | 38,24 | 38,24 |
| Module Efficiency (η/%)                       | 22,60 | 24,60 | 26,70 | 28,70 |

<sup>1</sup> STC: Irradiance 1000 W/m², module temperature 25 °C, AM 1,5  
<sup>2</sup> Depending on mounting height and the albedo of the underground



Packaging configuration

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Product quantity | 50 pcs / crate     | 50 pcs / crate     |
| Crate quantity   | 14 pcs / container | 26 pcs / container |
| Loading capacity | 700 pcs / 20'GP    | 1300 pcs / 40'HQ   |