# Silk® Plus

FuturaSun
anticipate tomorrow



PERC | TECHNOLOGY INSIDE

**550 W** Maximum power

**21.28 %** Maximum efficiency

## KEY BENEFITS AND FEATURES

- Power from **540** to **550 Watt**
- **Silver frame** and white backsheet
- **Long cable** as standard suitable for landscape configurations
- 144 M10 **PERC** half-cut cells
- Ideal for **Commercial** and **Industrial** installations
- 2279 x 1134 x 35 mm

### Performance guarantee

- **25-years** performance warranty with max power decrease from 2nd year **0.5%**/year
- **97%** at the end of first year
- **90%** at the end of 20th year
- **87%** at the end of 25th year

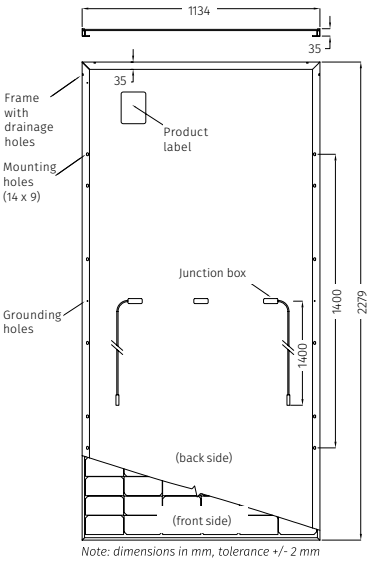
### Product guarantees

- **15-year** product warranty
- Third-party product **liability** insurance
- All FuturaSun's modules are designed and guaranteed by the **Italian** headquarters

All images shown are for illustration purpose only, product appearance may vary according to the installation, light and ambient reflection.

## Mechanical Specifications

| | |
|---|---|
| Dimensions | 2279 x 1134 x 35 mm |
| Weight | 28.2 kg |
| Glass | High transmission, Low iron, Tempered, ARC, Thickness 3.2 mm |
| Cells | 144 monocrystalline half-cut MBB PERC cells 182 x 91 mm |
| Frame | Anodized aluminium frame with mounting and drainage holes |
| Junction boxes | Certified according to IEC 62790, IP 68 approved, 3 bypass diodes |
| Cables | Solar cable, length 1400 mm or customized assembled with 4mm² compatible connectors |
| Backsheet | Composite Multilayer film - white |
| Maximum reverse current (Ir) | 25 A |
| Maximum system voltage | 1000 V (1500 V on request) |
| Mechanical load (snow) | Design load: 3600 Pa, (5400 Pa including safety factor 1.5) |
| Mechanical load (wind) | Design load: 1600 Pa, (2400 Pa including safety factor 1.5) |



*Note: dimensions in mm, tolerance +/- 2 mm*

| Electrical data - STC* | | FU 540 M | FU 545 M | FU 550 M |
|---|---|---|---|---|
| Sorting tolerance | W | 0/+5 | | |
| Module power (Pmax) | W | 540 | 545 | 550 |
| Open circuit voltage (Voc) | V | 49.66 | 49.81 | 49.96 |
| Short circuit current (Isc) | A | 13.77 | 13.84 | 13.91 |
| Maximum power voltage (Vmpp) | V | 41.8 | 41.96 | 42.12 |
| Maximum power current (Impp) | A | 12.92 | 12.99 | 13.06 |
| Module efficiency | % | 20.89 | 21.09 | 21.28 |

| Electrical data - NOCT** | | FU 540 M | FU 545 M | FU 550 M |
|---|---|---|---|---|
| Module power (Pmax) | W | 407 | 411 | 415 |
| Open circuit voltage (Voc) | V | 46.53 | 46.65 | 46.78 |
| Short circuit current (Isc) | A | 11.05 | 11.09 | 11.13 |
| Maximum power voltage (Vmpp) | V | 39.03 | 39.26 | 39.49 |
| Maximum power current (Impp) | A | 10.43 | 10.47 | 10.51 |

## Temperature ratings

| | | |
|---|---|---|
| Temperature coefficient Isc | %/°C | 0.05 |
| Temperature coefficient Voc | %/°C | -0.27 |
| Temperature coefficient Pmax | %/°C | -0.35 |
| NOCT** | °C | 45 |
| Operating temperature | °C | from -40 to +85 |

## Certifications

| | |
|---|---|
| Factory | ISO 9001 - 14001 - 45001 |
| Product | IEC EN 61215 - IEC EN 61730 Class 1 UNI9177, IEC EN 61701, IEC EN 62716, MCS |

## Packaging

| | |
|---|---|
| Quantity / Pallet | 31 pcs |
| Container 40' HC | 620 pcs / 20 pallets |

The information included in this module datasheet is subject to change without notice and is provided for informational purposes only. No contractual rights are established or should be inferred because of user's reliance on the information contained in this module datasheet. Please refer to the appropriate module user guide and module product specification document for more detailed technical information regarding module performance, installation and use.

*Standard Test Conditions STC: 1000 W/m² - AM 1.5 - 25 °C - tolerance: Pmax (±3%). Voc (±4%). Isc (±5%)
**Nominal Operating Cell Temperature NOCT: 800 W/m² - T=45 °C - AM 1.5

EN_05

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For detailed information, please refer to the installation manual