# Silk® Nova Duetto

FuturaSun anticipate tomorrow



**n-type** | TECHNOLOGY INSIDE

**630 W**
Maximum power

**23.32 %**
Maximum efficiency

## KEY BENEFITS AND FEATURES

- Power from **620** to **630 Watt**
- 132 G12R **n-type bifacial** half-cut cells
- **Silver frame** and white patterned back-glass
- Ideal for **agrivoltaics** and **C&I installations**
- Suitable for installations **up to 1500 V**
- 2382 x 1134 x 30 mm

### Performance guarantee

- **30-years** performance warranty with max power decrease from 1st year **0.4%**/year
- **99%** at the end of first year
- **92%** at the end of 20th year
- **87%** at the end of 30th year

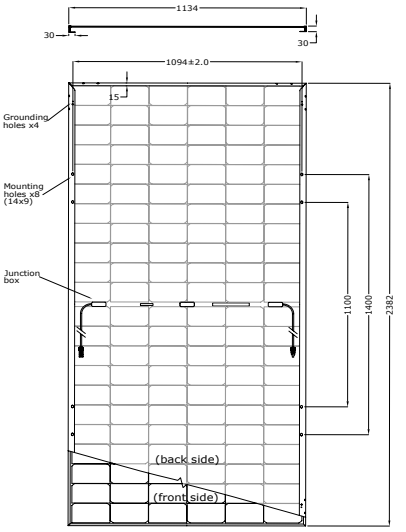
### Product guarantees

- **15-year** product and performance 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 | 2382 x 1134 x 30 mm |
| Weight | 33.5 kg |
| Glass | Front - 2.0 mm solar glass with ARC<br>Back - 2.0 mm heat strengthened glass |
| Cells | 132 monocrystalline half-cut MBB n-type bifacial cells 182 x 105 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 +300/-300 mm or customized<br>assembled with 4mm² compatible connectors |
| Back glass | white-patterned back-glass |
| Maximum reverse current (Ir) | 35 A |
| Maximum system voltage | 1500 V |
| 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 | | FU 620 MV | | FU 625 MV | | FU 630 MV | |
|---|---|---|---|---|---|---|---|
| TEST CONDITIONS | | STC* | BNPI** | STC* | BNPI** | STC* | BNPI** |
| Module power (Pmax) | W | 620 | 687.00 | 625 | 692.54 | 630 | 698.06 |
| Open circuit voltage (Voc) | V | 49.60 | 49.70 | 49.90 | 50.00 | 50.20 | 50.30 |
| Short circuit current (Isc) | A | 15.90 | 17.61 | 15.93 | 17.64 | 15.96 | 17.67 |
| Maximum power voltage (Vmpp) | V | 41.29 | 41.29 | 41.54 | 41.54 | 41.80 | 41.80 |
| Maximum power current (Impp) | A | 15.02 | 16.64 | 15.05 | 16.67 | 15.08 | 16.70 |
| Module efficiency | % | 22.95 | 25.43 | 23.14 | 25.64 | 23.32 | 25.64 |
| Isc at BSI**** | A | 19.71 | | 19.75 | | 19.79 | |
| Sorting tolerance | W | 0/+5 | | | | | |

| Electrical data - NOCT*** | | FU 620 MV | FU 625 MV | FU 630 MV |
|---|---|---|---|---|
| Module power (Pmax) | W | 466.76 | 471.22 | 474.92 |
| Open circuit voltage (Voc) | V | 47.12 | 47.40 | 47.68 |
| Short circuit current (Isc) | A | 12.83 | 12.86 | 12.88 |
| Maximum power voltage (Vmpp) | V | 38.48 | 38.72 | 38.96 |
| Maximum power current (Impp) | A | 12.13 | 12.17 | 12.19 |

## Temperature ratings

| | | |
|---|---|---|
| Temperature coefficient Isc | %/°C | 0.045 |
| Temperature coefficient Voc | %/°C | -0.25 |
| Temperature coefficient Pmax | %/°C | -0.29 |
| NOCT** | °C | 44 ± 2 |
| Operating temperature | °C | from -40 to +85 |

## Certifications

| | |
|---|---|
| Factory | ISO 9001 - 14001 - 45001 |
| Product | IEC EN 61215, IEC EN 61730 |

## Packaging

| | |
|---|---|
| Quantity / Pallet | 36 pcs |
| Container 40' HC | 720 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%)
**Bifacial Name Plate Irradiance (BNPI) Front side irradiation 1000 W/m² Back side reflection irradiation 135 W/m² Ambient temperature 25 °C
***Nominal Operating Cell Temperature (NOCT): 800 W/m² - T=45 °C - AM 1.5
****Bifacial Stress Irradiance (BSI): Front side irradiation 1000 W/m², Back side reflection irradiation 300 W/m²

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FuturaSun® anticipate tomorrow
Riva del Pasubio 14, 35013 Cittadella, PD, Italy
+39 049 5979802 | info@futurasun.it | futurasun.com

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For detailed information, please refer to the installation manual