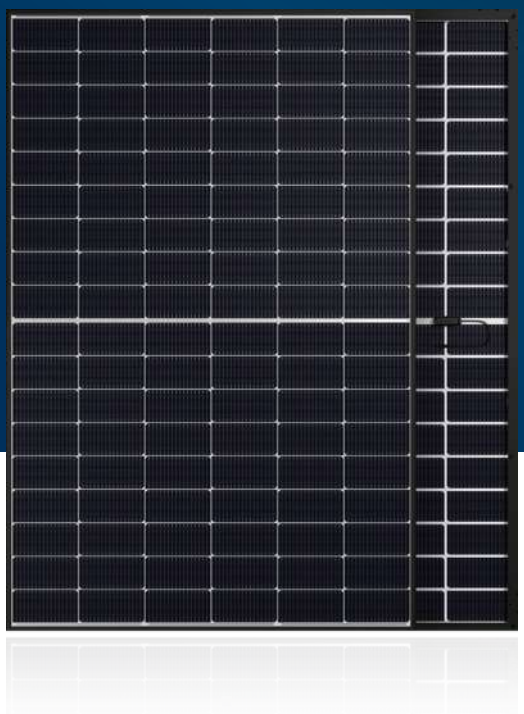
Silk® Nova Duetto

FuturaSun® anticipate tomorrow



n-type | TECHNOLOGY INSIDE

440 W
Maximum power

22.53 %
Maximum efficiency

KEY BENEFITS AND FEATURES

- Power from **430** to **440 Watt**
- 108 **M10 HC MBB n-type bifacial** cells
- **Black frame** and white-patterned back glass
- **Optimised frontal** performance
- Improved **long-life stability**
- 1722 x 1134 x 30 mm

Performance guarantee

- **30-years** performance warranty with max power decrease from 1nd 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

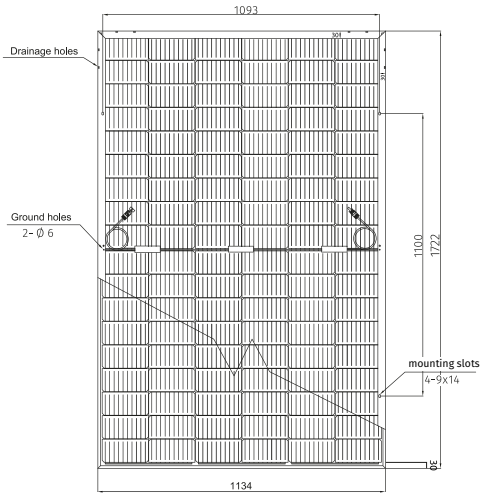
Product guarantees

- **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	1722 x 1134 x 30 mm
Weight	25.4 kg
Glass	Front - 2.0 mm solar glass with ARC Back - 2.0 mm Solar glass white grid
Cells	108 monocrystalline half-cut MBB n-type bifacial cells 182 x 91 mm
Frame	Black 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 1100 mm or customized assembled with 4mm² compatible connectors
Back glass	Transparent - white grid
Maximum reverse current (Ir)	30 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 430 MV		FU 435 MV		FU 440 MV	
TEST CONDITIONS		STC*	BSTC**	STC*	BSTC**	STC*	BSTC**
Module power (Pmax)	W	430	476.62	435	482.03	440	487.47
Open circuit voltage (Voc)	V	38.44	38.44	38.63	38.63	38.82	38.82
Short circuit current (Isc)	A	14.25	15.79	14.33	15.88	14.41	15.97
Maximum power voltage (Vmpp)	V	31.86	31.86	32.05	32.05	32.24	32.24
Maximum power current (Impp)	A	13.5	14.96	13.58	15.04	13.66	15.12
Module efficiency	%	22	24.4	22.28	24.7	22.53	25.0
Sorting tolerance	W	0/+5					

Electrical data - NOCT***		FU 430 MV	FU 435 MV	FU 440 MV
Module power (Pmax)	W	323	327	331
Open circuit voltage (Voc)	V	36.54	36.72	36.9
Short circuit current (Isc)	A	11.51	11.58	11.65
Maximum power voltage (Vmpp)	V	29.61	29.77	29.93
Maximum power current (Impp)	A	10.91	10.98	11.05

Temperature ratings

Temperature coefficient Isc	%/°C	0.045
Temperature coefficient Voc	%/°C	-0.25
Temperature coefficient Pmax	%/°C	-0.29
NOCT**	°C	45 ± 2
Operating temperature	°C	from -40 to +85

Certifications

Factory	ISO 9001 - 14001 - 45001
Product	IEC EN 61215, IEC EN 61730, Fire Class C, Class 1 UNI9177

Packaging

Quantity / Pallet	36 pcs
Container 40' HC	936 pcs / 26 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 Standard Test Conditions (BSTC) Front side irradiation 1000 Wp / sqm Back side reflection irradiation 135 Wp / sqm Ambient temperature 25 °C
***Nominal Operating Cell Temperature NOCT: 800 W/m² - T=45 °C - AM 1.5

EN_01

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CE

For detailed information, please refer to the installation manual