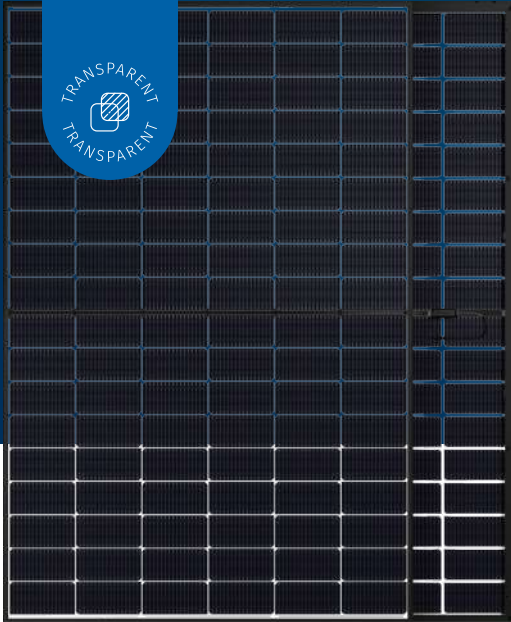


Silk[®] Nova Duetto



n-type

TECHNOLOGY
INSIDE

430 W 22 %

Maximum power

Maximum efficiency

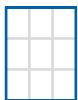
KEY BENEFITS AND FEATURES



Power from **420 to 430 Watt**



108 M10 HC MBB **n-type bifacial** half-cut bifacial cells



Black frame and transparent grid



Light-through design ideal for **canopies** and **carports**



Improved **long-life stability**



1722 x 1134 x 30 mm

Performance guarantee

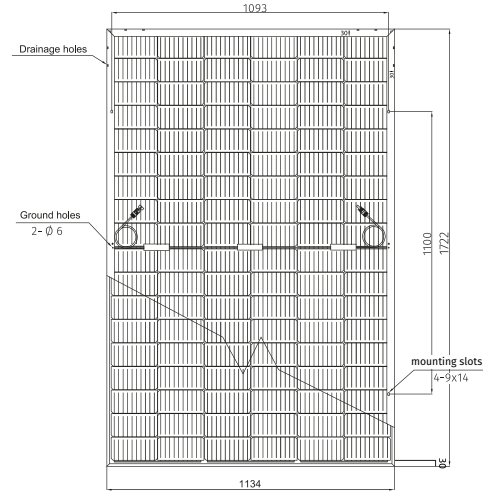
- **30-years** performance warranty with max power decrease from 1st year **0.4%/year**
- **99%** at the end of first year
- **92%** at the end of 20th year
- **87%** at the end of 30th year

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

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
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 4mm ² compatible connectors
Back glass	Transparent
Maximum reverse current (I _r)	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 420 MVT		FU 425 MVT		FU 430 MVT	
TEST CONDITIONS		STC [*]	BSTC ^{**}	STC [*]	BSTC ^{**}	STC [*]	BSTC ^{**}
Module power (P _{max})	W	420	465.11	425	470.93	430	476.62
Open circuit voltage (V _{oc})	V	38.06	38.06	38.25	38.25	38.44	38.44
Short circuit current (I _{sc})	A	14.09	15.61	14.17	15.70	14.25	15.79
Maximum power voltage (V _{mpp})	V	31.49	31.49	31.67	31.67	31.86	31.86
Maximum power current (I _{mpp})	A	13.34	14.77	13.42	14.87	13.50	14.96
Module efficiency	%	21.50	23.80	21.80	24.10	22.00	24.40
Sorting tolerance	W	0/+5					

Electrical data - NOCT^{***}

		FU 420 MVT	FU 425 MVT	FU 430 MVT
Module power (P _{max})	W	316	320	323
Open circuit voltage (V _{oc})	V	36.18	36.36	36.54
Short circuit current (I _{sc})	A	11.38	11.44	11.51
Maximum power voltage (V _{mpp})	V	29.32	29.48	29.61
Maximum power current (I _{mpp})	A	10.77	10.84	10.91

Temperature ratings

Temperature coefficient I _{sc}	%/°C	0.045
Temperature coefficient V _{oc}	%/°C	-0.25
Temperature coefficient P _{max}	%/°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: P_{max} (+3%), V_{oc} (±4%), I_{sc} (±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