

Velvet Plus



HJT | TECHNOLOGY
INSIDE

430 W 22.02 %

Maximum power

Maximum efficiency

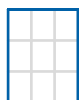
KEY BENEFITS AND FEATURES



Power **430 Watt**



108 G10 **HJT** bifacial half-cut cells



Silver frame and white-patterned back glass



Excellent temperature coefficient **-0.26 % / °C**



Optimised structure for low radiation and diffuse light



1722 x 1134 x 30 mm

Performance guarantee

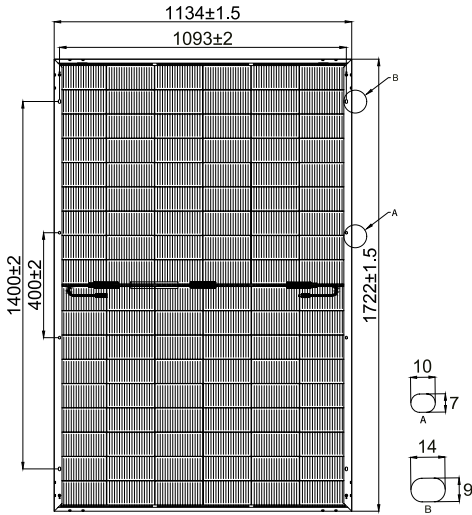
- **30-years** performance warranty with max power decrease from 2nd year **0.4%/year**
- **99%** at the end of first year
- **91%** at the end of 20th year
- **88%** at the end of 30th year

Product guarantees

- **15-year** product 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	26 kg
Glass	Front - 2.0 mm Solar glass with ARC Back - 2.0 mm Solar glass white grid
Cells	108 monocrystalline half-cut HJT 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 1100 mm or customized assembled with 4mm² compatible connectors
Back glass	White-patterned
Maximum reverse current (Ir)	25 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 MVS

TEST CONDITIONS		STC*	BSTC**
Module power (Pmax)	W	430	475
Open circuit voltage (Voc)	V	40.40	40.40
Short circuit current (Isc)	A	13.10	14.47
Maximum power voltage (Vmpp)	V	33.49	33.49
Maximum power current (Impp)	A	12.84	14.18
Module efficiency	%	22.02	24.32
Sorting tolerance	W	0/+5	

Electrical data - NOCT***

FU 430 MVS

Module power (Pmax)	W	327.22
Open circuit voltage (Voc)	V	37.29
Short circuit current (Isc)	A	10.56
Maximum power voltage (Vmpp)	V	31.61
Maximum power current (Impp)	A	10.35

Temperature ratings

Temperature coefficient Isc	%/°C	0.04
Temperature coefficient Voc	%/°C	-0.24
Temperature coefficient Pmax	%/°C	-0.26
NOCT**	°C	44 ± 2
Operating temperature	°C	from -40 to +85

Certifications

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

Packaging

Quantity / Pallet	36 pcs
Container 40' HC	936 pcs / 26 pallets

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*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