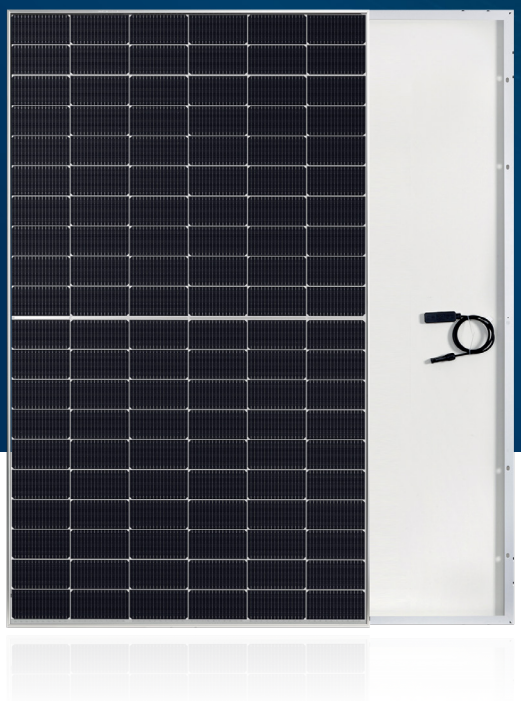
Silk® Nova

FuturaSun® anticipate tomorrow



n-type | TECHNOLOGY INSIDE

490 W Maximum power

22.62 % Maximum efficiency

KEY BENEFITS AND FEATURES

- Power from **480** to **490 Watt**
- 120 **M10 HC MBB n-type** cells
- **Silver frame** and white backsheet
- **High efficiency** and enhanced low light performance
- Excellent temperature coefficient **-0.29%/°C**
- 1910 x 1134 x 30 mm

Performance guarantee

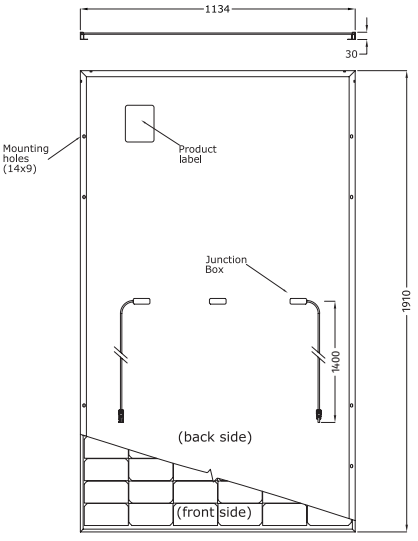
- **25-years** performance warranty with max power decrease from 2nd year **0.4%**/year
- **99%** at the end of first year
- **91.4%** at the end of 20th year
- **89.4%** at the end of 25th year

Product guarantees

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

Mechanical Specifications

Dimensions	1910 x 1134 x 30 mm
Weight	22.4 kg
Glass	High transmission, Low iron, Tempered, ARC, Thickness 3.2 mm
Cells	120 monocristalline half-cut MBB N-Type cells 182x91 mm
Frame	Anodized aluminum frame with mounting and drainage holes
Junction boxes	Certified according to IEC 62790, IP 68 approved, 3 bypass diodes
Cables	Solar cable 4mm², length 1400 mm or customized, with connectors type Suzhou Xtong PV-XT101.2
Backsheet	Composite Multilayer film
Maximum reverse current (Ir)	25 A
Maximum system voltage	1500 V
Mechanical load (snow)	Design load: +1600 Pa, (+2400 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*		FU480MV Silk Nova	FU485MV Silk Nova	FU490MV Silk Nova
Sorting tolerance	W	0~+5		
Module power (Pmax)	W	480	485	490
Open circuit voltage (Voc)	V	42.90	43.18	43.55
Short circuit current (Isc)	A	14.26	14.29	14.32
Maximum power voltage (Vmpp)	V	35.60	35.89	36.16
Maximum power current (Impp)	A	13.48	13.51	13.55
Module efficiency	%	22.16	22.39	22.62

Electrical data - NOCT**		FU480MV Silk Nova	FU485MV Silk Nova	FU490MV Silk Nova
Module power (Pmax)	W	361.29	364.94	368.61
Open circuit voltage (Voc)	V	40.76	40.88	41.01
Short circuit current (Isc)	A	11.51	11.58	11.64
Maximum power voltage (Vmpp)	V	33.36	33.41	33.47
Maximum power current (Impp)	A	10.83	10.92	11.01

Caratteristiche operative

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
Module (T98) max	°C	70

Certifications

Factory	ISO 9001 - 14001 - 45001
Product	IEC 61215, IEC 61730, Fire ratig Class C

Packaging

Quantity / Pallet	36 pcs
Container 40' HC	864 pcs / 24 pallets

*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

Product Made in P.R.C.
AUS_01

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CE

For detailed information, please refer to the installation manual