Silk® Nova





n-type | TECHNOLOGY

590 W 22.84 %

Maximum power

Maximum efficiency

KEY BENEFITS AND FEATURES



Power from **570** to **590 Watt**



144 M10 **n-type** half-cut cells



The **new standard** in photovoltaic technology



High efficiency and enhanced low light performance



Excellent temperature coefficient -0.29%/°C



2278 x 1134 x 35 mm

Performance guarantee

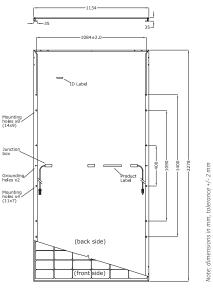
- 25-years performance warranty with max power decrease from 2nd year 0.4%/year
- 99% at the end of first year
- · 91.4% at the end of 20th year
- · 89.4% at the end of 25th year

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	2278 x 1134 x 35 mm
Weight	28.2 kg
Glass	High transmission, Low iron, Tempered, ARC, Thickness 3.2 mm
Cells	144 monocrystalline half-cut MBB n-type 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 4mm², length 1400 mm or customized with connectors type Suzhou Xtong PV-XT101.2
Backsheet	Composite Multilayer film - white
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)



Electrical data - STC*		FU570MV Silk Nova	FU575MV Silk Nova	FU580MV Silk Nova	FU585MV Silk Nova	FU590MV Silk Nova
Sorting tolerance	W			0~+5		
Module power (Pmax)	W	570	575	580	585	590
Open circuit voltage (Voc)	V	50.72	50.86	51.00	51.14	51.28
Short circuit current (Isc)	А	14.32	14.40	14.48	14.56	14.64
Maximum power voltage (Vmpp)	V	42.05	42.20	42.35	42.49	42.64
Maximum power current (Impp)	А	13.56	13.63	13.70	13.77	13.84
Module efficiency	%	22.06	22.26	22.45	22.64	22.84

Electrical data - NOCT"		FU570MV Silk Nova	FU575MV Silk Nova	FU580MV Silk Nova	FU585MV Silk Nova	FU590MV Silk Nova
Module power (Pmax)	W	429	433	436	440	444
Open circuit voltage (Voc)	V	48.19	48.31	48.45	48.59	48.73
Short circuit current (Isc)	А	11.56	11.63	11.69	11.75	11.82
Maximum power voltage (Vmpp)	V	39.5	39.59	39.68	39.78	39.89
Maximum power current (Impp)	А	10.86	10.93	11.00	11.07	11.13

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
Module (T98) max	°C	70

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

Packaging

Quantity / Pallet	31 pcs
Container 40' HC	620 pcs / 20 pallets

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'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

