# Silk® Nova





n-type | TECHNOLOGY INSIDE

440 W 22.53 %

Maximum power

Maximum efficiency

# KEY BENEFITS AND FEATURES



Power from 420 to 440 Watt



108 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



1722 x 1134 x 30 mm

# Performance guarantee

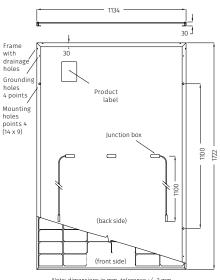
- 25-years performance warranty with max power decrease from 2<sup>nd</sup> year 0.4%/year
- · 99% at the end of first year
- 92% at the end of 20th year
- · 89% at the end of 25th year

## **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	1722 x 1134 x 30 mm
Weight	20.8 kg
Glass	High transmission, Low iron, Tempered, ARC, Thickness 3.2 mm
Cells	108 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, length 1100 mm or customized assembled with 4mm² compatible connectors
Backsheet	Composite Multilayer film - white
Maximum reverse current (Ir)	25 A
Maximum system voltage	1000 V (1500 V on request)
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:	aimensions	s iri mirii,	, toterance	+/- 2 mm

Electrical data - STC		FU 420 M	FU 425 M	FU 430 M	FU 435 M	FU 440 M
Sorting tolerance	W			0/+5		
Module power (Pmax)	W	420	425	430	435	440
Open circuit voltage (Voc)	V	38.06	38.25	38.44	38.63	38.82
Short circuit current (Isc)	А	14.09	14.17	14.25	14.33	14.41
Maximum power voltage (Vmpp)	V	31.49	31.67	31.86	32.05	32.24
Maximum power current (Impp)	А	13.34	13.42	13.5	13.58	13.66
Module efficiency	%	21.5	21.8	22	22.28	22.53

Electrical data - NOCT"		FU 420 M	FU 425 M	FU 430 M	FU 435 M	FU 440 M
Module power (Pmax)	w	316	320	323	327	330
Open circuit voltage (Voc)	V	36.18	36.36	36.54	36.72	36.90
Short circuit current (Isc)	А	11.38	11.44	11.51	11.58	11.65
Maximum power voltage (Vmpp)	V	29.32	29.48	29.61	29.74	29.87
Maximum power current (Impp)	А	10.77	10.84	10.91	10.98	11.05

### Temperature ratings

Temperature coefficient Isc	%/°C	0.045
	,5/ 6	5.545
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 61730, IEC EN 61215, IEC EN 61730, Fire Class C

## 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%) "Nominal Operating Cell Temperature NOCT: 800 W/m² - T=45 °C - AM 1.5

