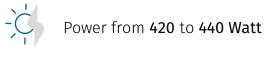
Silk[®] Nova





KEY BENEFITS AND FEATURES



	ΓY

The new standard in photovoltaic technology



Excellent temperature coefficient -0.29%/°C

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108 M10 n-type half-cut cells



High efficiency and enhanced low light performance



1722 x 1134 x 30 mm

Performance guarantee

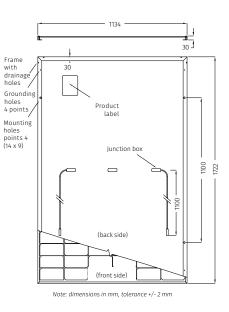
- 25-years performance warranty with max power decrease from 2nd year **0.4%**/year
- 99% at the end of first year
- 92% at the end of 20th year
- 89% at the end of 25th year

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)



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)	A	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 lsc	%/°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	

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

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 15 - 25 °C - tolerance: Pmax (±3%). Voc (±4%). Isc (±5%) "Nominal Operating Cell Temperature NOCT: 800 W/m² - T=45 °C - AM 15

EN_01



IEC EN 61730,