

n-type

TECHNOLOGY
INSIDE

440 W 22.53 %

Maximum power

Maximum efficiency

KEY BENEFITS AND FEATURES



Power from **430** 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

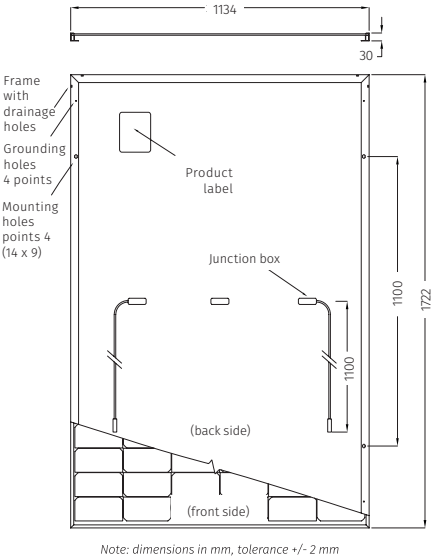
- **25-years** performance warranty with max power decrease from 2nd year **0.4%/year**
- **99%** at the end of first year
- **91.4%** at the end of 20th year
- **89.4%** at the end of 25th year

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	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 / Connectors	Solar cable 4mm², length 1100 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	1000 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*

		FU430M Silk Nova	FU435M Silk Nova	FU440M Silk Nova
Sorting tolerance	W	0~+5		
Module power (Pmax)	W	430	435	440
Open circuit voltage (Voc)	V	38.44	38.63	38.82
Short circuit current (Isc)	A	14.25	14.33	14.40
Maximum power voltage (Vmpp)	V	31.86	32.04	32.22
Maximum power current (Impp)	A	13.50	13.58	13.66
Module efficiency	%	22.02	22.27	22.53

Electrical data - NOCT**

		FU430M Silk Nova	FU435M Silk Nova	FU440M Silk Nova
Module power (Pmax)	W	323	327	330
Open circuit voltage (Voc)	V	36.54	36.72	36.90
Short circuit current (Isc)	A	11.51	11.58	11.65
Maximum power voltage (Vmpp)	V	29.61	29.74	29.87
Maximum power current (Impp)	A	10.91	10.98	11.05

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	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
Product made in P.R.C
AUS_01