Silk® Plus

FuturaSun® anticipate tomorrow

PERC | TECHNOLOGY INSIDE

550 W Maximum power

21.28 % Maximum efficiency

KEY BENEFITS AND FEATURES

- Power from **540** to **550 Watt**
- **Silver frame** and white backsheet
- **Long cable** as standard suitable for landscape configurations
- 144 M10 **PERC** half-cut cells
- Ideal for **Commercial** and **Industrial** installations
- 2279 x 1134 x 35 mm

Performance guarantee

- **25-years** performance warranty with max power decrease from 2nd year **0.5%**/year
- **97%** at the end of first year
- **90%** at the end of 20th year
- **87%** at the end of 25th year

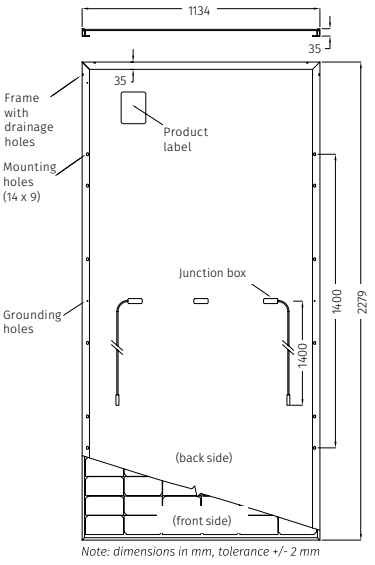
Product guarantees

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

All images shown are for illustration purpose only, product appearance may vary according to the installation, light and ambient reflection.

Mechanical Specifications

Dimensions	2279 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 PERC 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 1400 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: dimensions in mm, tolerance +/- 2 mm

Electrical data - STC*		FU 540 M	FU 545 M	FU 550 M
Sorting tolerance	%	0/+5		
Module power (Pmax)	W	540	545	550
Open circuit voltage (Voc)	V	49.66	49.81	49.96
Short circuit current (Isc)	A	13.77	13.84	13.91
Maximum power voltage (Vmpp)	V	41.8	41.96	42.12
Maximum power current (Impp)	A	12.92	12.99	13.06
Module efficiency	%	20.89	21.09	21.28

Electrical data - NOCT**		FU 540 M	FU 545 M	FU 550 M
Module power (Pmax)	W	407	411	415
Open circuit voltage (Voc)	V	46.53	46.65	46.78
Short circuit current (Isc)	A	11.05	11.09	11.13
Maximum power voltage (Vmpp)	V	39.03	39.26	39.49
Maximum power current (Impp)	A	10.43	10.47	10.51

Temperature ratings

Temperature coefficient Isc	%/°C	0.05
Temperature coefficient Voc	%/°C	-0.27
Temperature coefficient Pmax	%/°C	-0.35
NOCT**	°C	45
Operating temperature	°C	from -40 to +85

Certifications

Factory	ISO 9001 - 14001 - 45001
Product	IEC EN 61215 - IEC EN 61730 Class 1 UNI9177, IEC EN 61701, IEC EN 62716, MCS

Packaging

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

EN_04

FuturaSun® anticipate tomorrow
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For detailed information, please refer to the installation manual