

n-type

TECHNOLOGY
INSIDE

720 W 23.18 %

Maximum power

Maximum efficiency

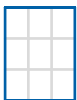
KEY BENEFITS AND FEATURES



Power of 700 / 710 / 720 Watt



132 G12 n-type bifacial half-cut cells



Silver frame and white patterned back-glass



Ideal for agrivoltaics and C&I installations



Suitable for installations up to 1500 V



2384 x 1303 x 35 mm

Performance guarantee

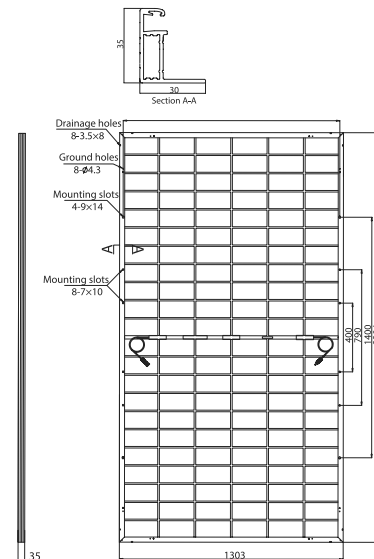
- 30-years performance warranty with max power decrease from 1st year **0.4%/year**
- **99%** at the end of first year
- **92%** at the end of 20th year
- **87%** at the end of 30th year

Product guarantees

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

Mechanical Specifications

Dimensions	2384 x 1303 x 35 mm
Weight	38.7 kg
Glass	Front - 2.0 mm solar glass with ARC Back - 2.0 mm heat strengthened glass
Cells	132 monocrystalline half-cut MBB n-type bifacial cells 210 x 105 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 +300/-300 mm or customized assembled with 4mm ² compatible connectors
Back glass	white-patterned back-glass
Maximum reverse current (I _r)	35 A
Maximum system voltage	1500 V
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

TEST CONDITIONS		FU 700 MV		FU 710 MV		FU 720 MV	
		STC [*]	BNPI ^{**}	STC [*]	BNPI ^{**}	STC [*]	BNPI ^{**}
Module power (P _{max})	W	700	776	710	787	720	798
Open circuit voltage (V _{oc})	V	48.26	48.36	48.66	48.76	49.05	49.15
Short circuit current (I _{sc})	A	18.38	20.37	18.46	20.45	18.54	20.54
Maximum power voltage (V _{mpp})	V	40.50	40.51	40.89	40.89	41.27	41.27
Maximum power current (I _{mpp})	A	17.29	19.15	17.37	19.24	17.45	19.33
Module efficiency	%	22.53	24.97	22.86	25.35	23.18	25.68
I _{sc} at BSI ^{***}	A	22.79		22.89		22.99	
Sorting tolerance	W	0/+5					

Electrical data - NOCT^{***}

		FU 700 MV	FU 710 MV	FU 720 MV
Module power (P _{max})	W	526.29	533.90	541.44
Open circuit voltage (V _{oc})	V	45.85	46.23	46.89
Short circuit current (I _{sc})	A	14.84	14.90	15.02
Maximum power voltage (V _{mpp})	V	37.70	38.08	38.25
Maximum power current (I _{mpp})	A	13.96	14.02	14.16

Temperature ratings

Temperature coefficient I _{sc}	%/°C	0.045
Temperature coefficient V _{oc}	%/°C	-0.25
Temperature coefficient P _{max}	%/°C	-0.29
NOCT ^{***}	°C	44 ± 2
Operating temperature	°C	from -40 to +85

Certifications

Factory	ISO 9001 - 14001 - 45001
Product	IEC EN 61215, IEC EN 61730

Packaging

Quantity / Pallet	31 pcs
Container 40' HC	558 pcs / 18 pallets

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^{*}Standard Test Conditions (STC): 1000 W/m² - AM 1.5 - 25 °C - tolerance: P_{max} (±3%), V_{oc} (±4%), I_{sc} (±5%)
^{**}Bifacial Name Plate Irradiance (BNPI) Front side irradiation 1000 W/m² Back side reflection irradiation 135 W/m² Ambient temperature 25 °C
^{***}Nominal Operating Cell Temperature (NOCT): 800 W/m² - T=45 °C - AM 1.5
^{****}Bifacial Stress Irradiance (BSI): Front side irradiation 1000 W/m², Back side reflection irradiation 300 W/m²

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