

## n-type

TECHNOLOGY  
INSIDE

# 710 W 22.86 %

Maximum power

Maximum efficiency

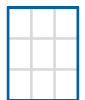
## KEY BENEFITS AND FEATURES



Power of **710 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

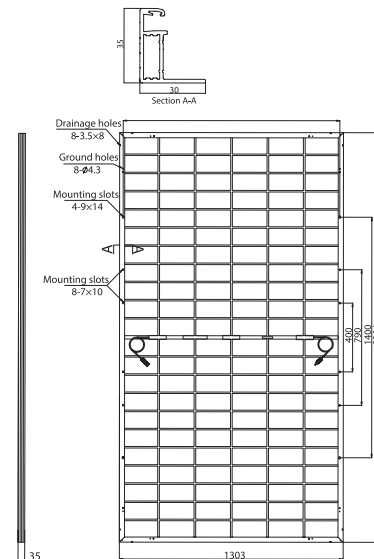
- **30-years** performance warranty with max power decrease from 1<sup>st</sup> year **0.4%/year**
- **99%** at the end of first year
- **92%** at the end of 20<sup>th</sup> year
- **87%** at the end of 30<sup>th</sup> year

### 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 <sup>2</sup> compatible connectors
Back glass	White grid
Maximum reverse current (I <sub>r</sub> )	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

### FU 710 MV

TEST CONDITIONS		STC*	BNPI**
Module power (P <sub>max</sub> )	W	710	787
Open circuit voltage (V <sub>oc</sub> )	V	48.66	48.76
Short circuit current (I <sub>sc</sub> )	A	18.46	20.45
Maximum power voltage (V <sub>mpp</sub> )	V	40.89	40.89
Maximum power current (I <sub>mp</sub> )	A	17.37	19.24
Module efficiency	%	22.86	25.35
I <sub>sc</sub> at BSI****	A		22.89
Sorting tolerance	W		0/+5

## Electrical data - NOCT\*\*\*

### FU 710 MV

Module power (P <sub>max</sub> )	W	533.90
Open circuit voltage (V <sub>oc</sub> )	V	46.23
Short circuit current (I <sub>sc</sub> )	A	14.90
Maximum power voltage (V <sub>mpp</sub> )	V	38.08
Maximum power current (I <sub>mp</sub> )	A	14.02

## Temperature ratings

Temperature coefficient I <sub>sc</sub>	%/°C	0.045
Temperature coefficient V <sub>oc</sub>	%/°C	-0.25
Temperature coefficient P <sub>max</sub>	%/°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

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/m<sup>2</sup> - AM 1.5 - 25 °C - tolerance: P<sub>max</sub> (±3%) V<sub>oc</sub> (±4%) I<sub>sc</sub> (±5%)  
 \*\*Bifacial Name Plate Irradiance (BNPI) Front side irradiation 1000 W/m<sup>2</sup> Back side reflection irradiation 135 W/m<sup>2</sup> Ambient temperature 25 °C  
 \*\*\*Nominal Operating Cell Temperature (NOCT): 800 W/m<sup>2</sup> - T=45 °C - AM 1.5  
 \*\*\*\*Bifacial Stress Irradiance (BSI): Front side irradiation 1000 W/m<sup>2</sup>, Back side reflection irradiation 300 W/m<sup>2</sup>

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