



## 390 W N-type

Maximum power

Technology inside

### KEY BENEFITS AND FEATURES



Power **390 Watt**



108 M10 **N-type** half-cut cells



**Green colored glass and frame** for special architectural requirements (similar to RAL 6000)\*



Coloured glass for a **consistent appearance over time**



Ideal for “invisible” **greenfield installations**



1722 x 1134 x 30 mm

#### Performance guarantee

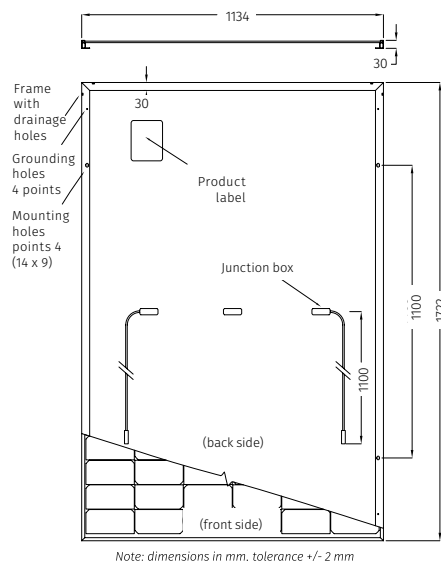
- **25-years** performance warranty with max power decrease from 2<sup>nd</sup> year **0.4%/year**
- **99%** at the end of first year
- **92%** at the end of 20<sup>th</sup> year
- **89%** at the end of 25<sup>th</sup> year

#### 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	Green, High transmission, Low iron, Tempered, ARC, Thickness 3.2 mm
Cells	108 monocrystalline half-cut MBB N-type cells 182 x 91 mm
Frame	Varnished 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 4mm <sup>2</sup> compatible connectors
Backsheet	Composite Multilayer film - white
Maximum reverse current (I <sub>r</sub> )	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 390 M

Sorting tolerance	W	0/+5
Module power (P <sub>max</sub> )	W	390
Open circuit voltage (V <sub>oc</sub> )	V	38.12
Short circuit current (I <sub>sc</sub> )	A	12.46
Maximum power voltage (V <sub>mpp</sub> )	V	32.15
Maximum power current (I <sub>mp</sub> )	A	12.19
Module efficiency	%	19.97

## Electrical data - NOCT\*\*

FU 390 M

Module power (P <sub>max</sub> )	W	294
Open circuit voltage (V <sub>oc</sub> )	V	36.24
Short circuit current (I <sub>sc</sub> )	A	10.06
Maximum power voltage (V <sub>mpp</sub> )	V	29.93
Maximum power current (I <sub>mp</sub> )	A	9.84

## Temperature ratings

Temperature coefficient I <sub>sc</sub>	%/°C	0.05
Temperature coefficient V <sub>oc</sub>	%/°C	-0.28
Temperature coefficient P <sub>max</sub>	%/°C	-0.29
NOCT**	°C	45
Operating temperature	°C	from -40 to +85

## Certifications

Factory	ISO 9001 - 14001 - 45001
Product	Ongoing: IEC EN 61730, IEC EN 61215, Class 1 UNI9177

## 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/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%)  
 \*\*Nominal Operating Cell Temperature NOCT: 800 W/m<sup>2</sup> - T=45 °C - AM 1.5

Notice: All data and specifications are preliminary and subject to change without notice.

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