

n-type

TECHNOLOGY
INSIDE

625 W 23.14 %

Maximum power

Maximum efficiency

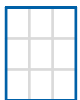
KEY BENEFITS AND FEATURES



Power from **615 to 625 Watt**



132 G12R **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**



2382 x 1134 x 30 mm

Performance guarantee

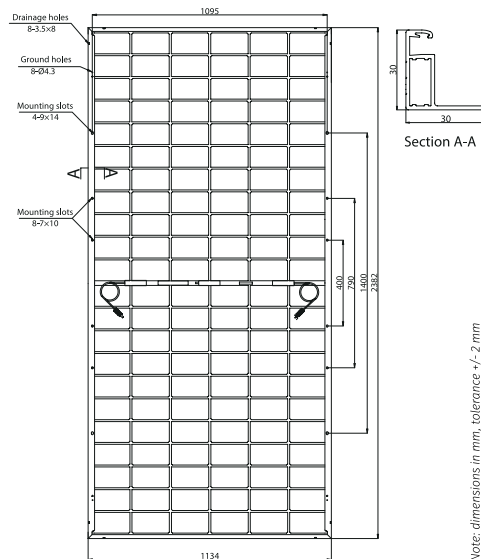
- **30-years** performance warranty with max power decrease from 1st year **0.4%/year**
- **99%** at the end of first year
- **92%** at the end of 20th year
- **87%** at the end of 30th year

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	2382 x 1134 x 30 mm
Weight	33.5 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 182 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 615 M		FU 620 M		FU 625 M	
		STC [*]	BNPI ^{**}	STC [*]	BNPI ^{**}	STC [*]	BNPI ^{**}
Module power (P _{max})	W	615	681.46	620	687.00	625	692.54
Open circuit voltage (V _{oc})	V	49.31	49.41	49.60	49.70	49.90	50.00
Short circuit current (I _{sc})	A	15.87	17.58	15.90	17.61	15.93	17.64
Maximum power voltage (V _{mpp})	V	41.03	41.03	41.29	41.29	41.54	41.54
Maximum power current (I _{mpp})	A	14.99	16.61	15.02	16.64	15.05	16.67
Module efficiency	%	22.77	25.23	22.95	25.43	23.14	25.64
I _{sc} at BSI ^{***}	A	19.67		19.71		19.75	
Sorting tolerance	W	0/+5					

Electrical data - NOCT^{***}

		FU 615 M	FU 620 M	FU 625 M
Module power (P _{max})	W	462.58	466.83	471.12
Open circuit voltage (V _{oc})	V	46.84	47.12	47.40
Short circuit current (I _{sc})	A	12.81	12.83	12.86
Maximum power voltage (V _{mpp})	V	38.23	38.48	38.72
Maximum power current (I _{mpp})	A	12.10	12.13	12.17

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	36 pcs
Container 40' HC	720 pcs / 20 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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