

# FU 295 / 300 / 305 / 310 / 315 P

Polycrystalline Photovoltaic Module - 72 Cells

Italian Design & Development



## GENERAL FEATURES

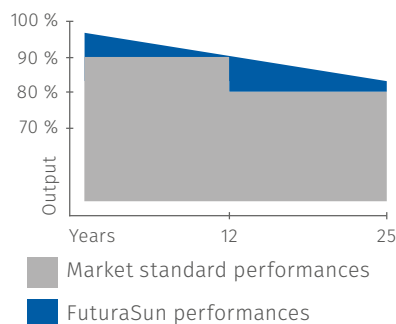
- **12-year product warranty**
- **Positive sorting** of power classes from 0 to +5 Wp
- **4 bus-bar high-efficiency cells** decrease ohmic losses and increase the yield
- **Tempered 3.2 mm safety glass** for optimal mechanical stability and transparency
- **High stability** against wind (2400 Pascal) and snow (5400 Pascal)
- Maximum **resistance against hail** (83 km/h)
- Water repellent, high transmittance and anti-reflective glass coating, to increase yield and avoid dust deposition

## CERTIFICATIONS

- **IEC 61215, IEC 61730**
- **Fire Resistance - Class 1**
- **IEC61701**  
Salt Corrosion Resistance
- **IEC62716**  
Ammonia Corrosion
- **PID Test - Class A**  
Potential Induced Degradation

## GUARANTEES

### PERFORMANCE GUARANTEE



### Performance guarantee

Max power decrease 0.7%/year  
97% at the end of first year  
90% at the end of 12<sup>th</sup> year  
82% at the end of 25<sup>th</sup> year

### Product guarantee

12 years



cobat



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## ELECTRICAL DATA

MODULE		FU 295 P	FU 300 P	FU 305 P	FU 310 P	FU 315 P
<i>Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - measuring tolerance &lt;3%</i>						
Module power (Pmax)	W	295	300	305	310	315
Module efficiency	%	15.23	15.48	15.74	16.00	16.26
Maximum power voltage (Vmpp)	V	36.9	37.1	37.4	37.6	37.9
Maximum power current (Impp)	A	8	8.11	8.21	8.31	8.4
Open circuit voltage (Voc)	V	44.9	45.1	45.3	45.5	45.7
Short circuit current (Isc)	A	8.4	8.48	8.56	8.63	8.7
Maximum system voltage	V	1000	1000	1000	1000	1000

<i>Nominal Operating Cell Temperature NOCT: 800 W/sqm - T=45 °C - AM 1.5</i>						
Module power (Pmax)	W	208	212	216	219	224
Maximum power voltage (Vmpp)	V	33.1	33.3	33.5	33.7	33.9
Maximum power current (Impp)	A	6.3	6.38	6.46	6.53	6.6
Open circuit voltage (Voc)	V	40.6	40.8	41	41.2	41.4
Short circuit current (Isc)	A	6.73	6.79	6.85	6.91	6.95

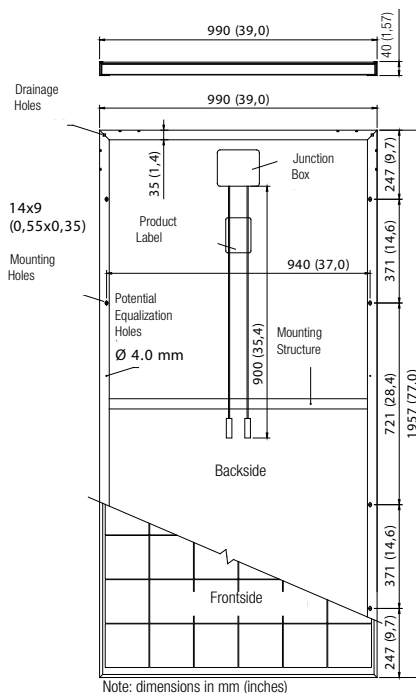
### TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.06
Temperature coefficient Voc	%/°C	-0.26
Temperature coefficient Pmax	%/°C	-0.36
NOCT *	°C	45°C
Operating temperature	°C	from -40 to +85

\* Nominal Operating Cell Temperature

### MECHANICAL SPECIFICATIONS

Dimensions	1957 x 990 x 40 mm
Weight	25 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	72 four bus-bar polycrystalline cells 156x156 mm
Backsheet	Composite multilayer film
Frame	Anodized aluminium frame with mounting and drainage holes
Junction box	Dimensions: 130 x 150 x 26 mm, IP 65 approved
Cables	Solar cable, length 900 mm (1500 mm upon request) assembled with MC4-combinable plugs



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