



FU 270 / 275 / 280 / 285 / 290 / 295 / 300 M

Monocrystalline Photovoltaic Module - 60 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

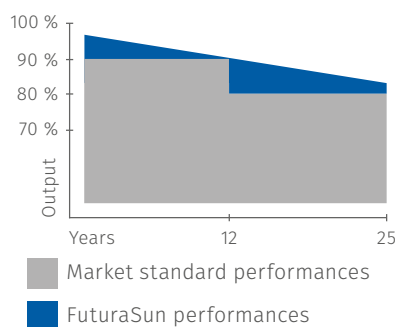
CERTIFICATIONS

- **IEC 61215, IEC 61730**
- **Fire Resistance - Class 1**
- **IEC61701**
Salt Corrosion Resistance
- **IEC62716**
Ammonia Corrosion



GUARANTEES

PERFORMANCE GUARANTEE



Performance guarantee

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

Product guarantee

12 years

ELECTRICAL DATA

MODULE		FU 270 M	FU 275 M	FU 280 M	FU 285 M	FU 290 M	FU 295 M	FU 300 M
<i>Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - measuring tolerance <3%</i>								
Module power (Pmax)	W	270	275	280	285	290	295	300
Module efficiency	%	16.53	16.84	17.14	17.45	17.75	18.06	18.37
Maximum power voltage (Vmpp)	V	31.2	31.3	31.40	31.50	31.60	31.70	31.80
Maximum power current (Impp)	A	8.71	8.82	8.96	9.10	9.25	9.40	9.55
Open circuit voltage (Voc)	V	38.3	38.4	38.50	38.60	38.60	38.70	38.70
Short circuit current (Isc)	A	9.25	9.32	9.39	9.50	9.62	9.73	9.84
Maximum system voltage	V	1000	1000	1000	1000	1000	1000	1000

<i>Nominal Operating Cell Temperature NOCT: 800 W/mq - T=44 °C - AM 1.5</i>								
Module power (Pmax)	W	197	201	205	208	211	215	217
Maximum power voltage (Vmpp)	V	28.2	28.4	28.50	28.50	28.55	28.60	28.60
Maximum power current (Impp)	A	6.99	7.08	7.20	7.32	7.42	7.52	7.62
Open circuit voltage (Voc)	V	34.8	34.9	35.00	35.00	35.10	35.20	35.20
Short circuit current (Isc)	A	7.43	7.49	7.52	7.60	7.70	7.80	7.88

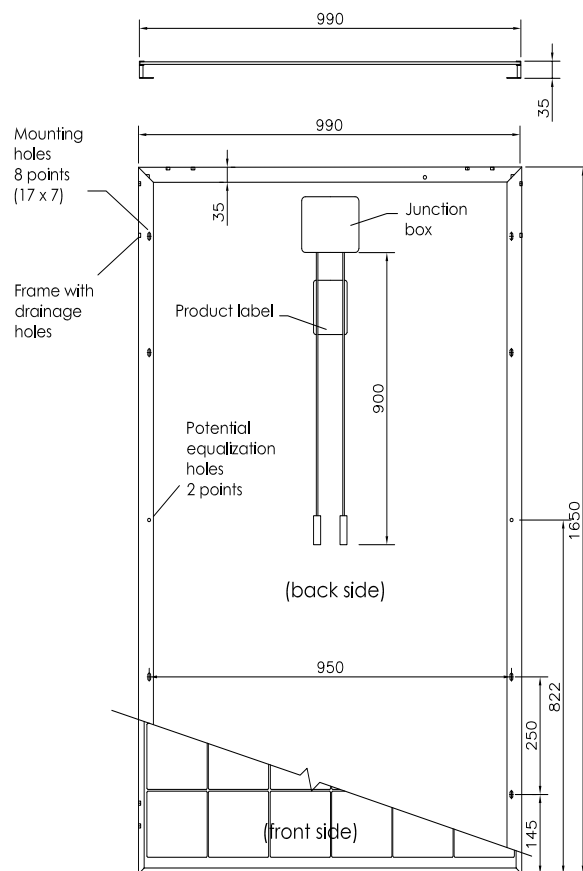
TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.05
Temperature coefficient Voc	%/°C	-0.29
Temperature coefficient Pmax	%/°C	-0.41
NOCT *	°C	44
Operating temperature	°C	from -40 to +85

* Nominal Operating Cell Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1650 x 990 x 35 mm
Weight	17.7 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	60 four bus-bar monocrystalline 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 assembled with MC4-combinable plugs



Note: dimensions in mm

Authorized Dealer