

FU 260 / 265 / 270 / 275 / 280 / 285 / 290 M Black

Full Black Monocrystalline Photovoltaic Module - 60 Cells

Italian Design & Development

GENERAL FEATURES



- **Total black look**
- **12-year product warranty**
- **Positive sorting** of power classes 0-5 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

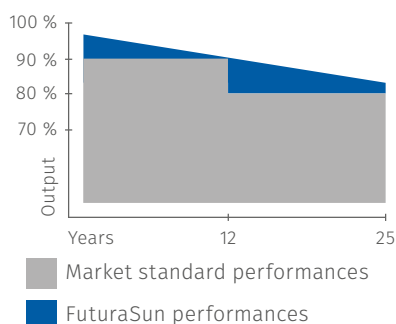
CERTIFICATIONS

- 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



www.futurasun.com

ELECTRICAL DATA

MODULE		FU 260 M	FU 265 M	FU 270 M	FU 275 M	FU 280 M	FU 285 M	FU 290 M
<i>Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - measuring tolerance <3%</i>								
Module power (Pmax)	W	260	265	270	275	280	285	290
Module efficiency	%	15.92	16.22	16.53	16.84	17.14	17,45	17,75
Maximum power voltage (Vmpp)	V	30.8	31	31.2	31.3	31.40	31,50	31,60
Maximum power current (Imp)	A	8.49	8.6	8.71	8.82	8.96	9,10	9,25
Open circuit voltage (Voc)	V	37.7	37.9	38.3	38.4	38.50	38,60	38,60
Short circuit current (Isc)	A	8.97	9.06	9.25	9.32	9.39	9,50	9,62
Maximum system voltage	V	1000	1000	1000	1000	1000	1000	1000

<i>Nominal Operating Cell Temperature NOCT: 800 W/mq - T=48 °C - AM 1.5</i>								
Module power (Pmax)	W	186	190	194	201	205	208	211
Maximum power voltage (Vmpp)	V	27.30	27.50	28.2	28.4	28.50	28.50	28.55
Maximum power current (Imp)	A	6.83	6.92	6.99	7.08	7.20	7.32	7.42
Open circuit voltage (Voc)	V	34.20	34.40	34.8	34.9	35.00	35	35.1
Short circuit voltage (Isc)	A	7.24	7.31	7.43	7.49	7.52	7.60	7.70

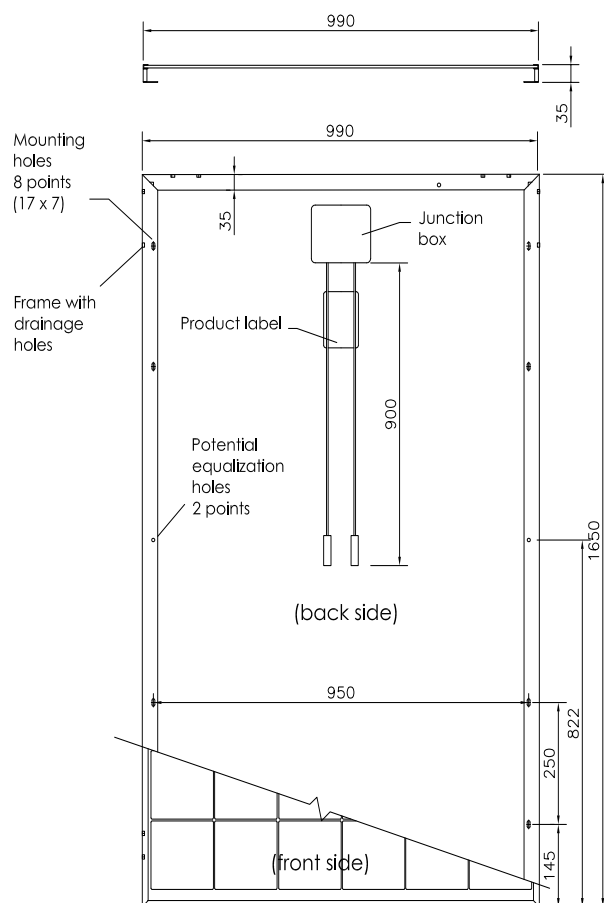
TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.04
Temperature coefficient Voc	%/°C	-0.33
Temperature coefficient Pmax	%/°C	-0.43
NOCT *	°C	48°C
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	Full black 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