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Solar Panel Guide Specification Data Sheet

FuturaSun srl

FU180-200M

FU190M

Also available on the web at
EnergyPal.com/futurasun-srl-solar-panels/fu190m



Engineered
in Italy

FU 180 / 185 / 190 / 195 / 200 M

Monocrystalline Photovoltaic Module - 72 Cells - REVAMPING

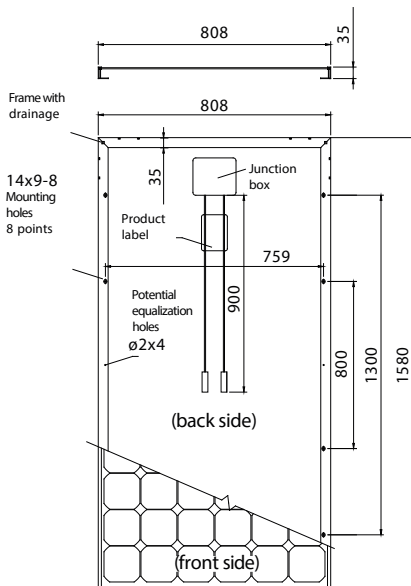


GENERAL FEATURES

- **15-year product warranty**
- Positive sorting of power classes 0-5 Wp
- **High-efficiency cells** decrease ohmic losses and increase the yield
- **Tempered 3.2 mm safety glass** for optimal mechanical stability and transparency
- Maximum **resistance against hail** (83 km/h)
- **Water-repellent, high-transmittance and antireflective glass coating**, to increase yield and avoid dust deposition

CERTIFICATIONS

- > **IEC 61215 - IEC 61730 & Factory Inspection**
- > **ISO 9001, ISO 14001 and OHSAS 18001**



Note: dimensions in mm
tolerance +/- 2 mm

GUARANTEES

Performance guarantee

Max power decrease **0.5%/year**

97% at the end of first year

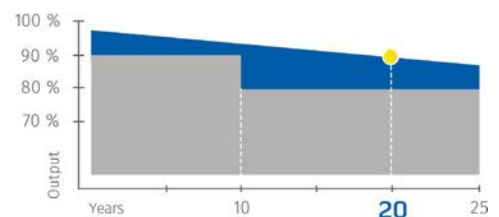
90% at the end of 20th year **NEW**

87% at the end of **25th year**

Product guarantee

15 YEARS **NEW**

- Market standard performances
- FuturaSun performances



ELECTRICAL DATA

MODULO		FU 180 M	FU 185 M	FU 190 M	FU 195 M	FU 200 M
<i>Standard Test Conditions STC: 1000 W/mq - AM 1.5 - 25 °C - tolerance <3%</i>						
Module power (Pmax)	W	180	185	190	195	200
Open circuit voltage (Voc)	V	44.1	44.5	44.8	45.1	45.4
Short circuit current (Isc)	A	5.4	5.5	5.6	5.7	5.8
Maximum power voltage (Vmpp)	V	35.6	35.9	36.2	36.45	36.7
Maximum power current (Impp)	A	5.05	5.15	5.25	5.35	5.45
Module efficiency	%	14.1	14.5	14.9	15.3	15.7
Maximum system voltage	V	1000	1000	1000	1000	1000

TEMPERATURE RATINGS

Module power (Pmax)	%/°C	0.07
Open circuit voltage (Voc)	%/°C	-0.36
Short circuit voltage (Isc)	%/°C	-0.43
NOCT *	°C	45°C ± 2°C
Operating temprature	°C	from -40 to +85

* Nominal Operating Cell Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1580 x 808 x 35 mm
Weight	14 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	72 two bus-bar monocrystalline cells 125x125 mm
Backsheet	Composite multilayer film
Frame	Anodized aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 67 approved
Cables	Length 900 mm assembled with MC4-combinable plugs



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