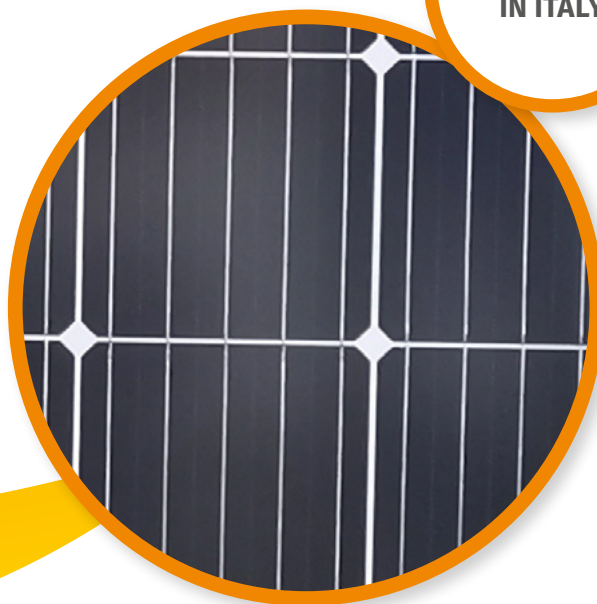


Solar Module 190 W for Off-Grid Applications



CE



DESIGNED
IN ITALY

FU 190 M Next Monocrystalline 36 cells

- **15-year product warranty**
- **High-efficiency cells** decrease ohmic losses and increase the yield
- **Tempered 3.2 mm safety glass** for optimal mechanical stability and transparency
- **High temperature resistance** (tested at 105° C for 200 hours)
- For installations **up to an altitude of 7000 m**
- **Maximum resistance against hail** (83 km/h)
- Quality controll with **electroluminescence (EL) tests on each module**
- Water-repellent, high-transmittance and antireflection coating glass, **to increase yield and avoid dust deposition**

Designed in Italy · 8 Quality Certifications

ELECTRICAL DATA

MODULE	FU 190 M Next	
<i>Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - tolerance: Pmax (±3%), Voc (±4%), Isc (±5%)</i>		
Module power (Pmax)	W	190
Open circuit voltage (Voc)	V	24.98
Short circuit current (Isc)	A	9.72
Maximum power voltage (Vmpp)	V	20.31
Maximum power current (Impp)	A	9.36
Module efficiency	%	19.16

<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>		
Module power (Pmax)	W	139.53
Open circuit voltage (Voc)	V	23.04
Short circuit current (Isc)	A	7.99
Maximum power voltage (Vmpp)	V	18.38
Maximum power current (Impp)	A	7.59

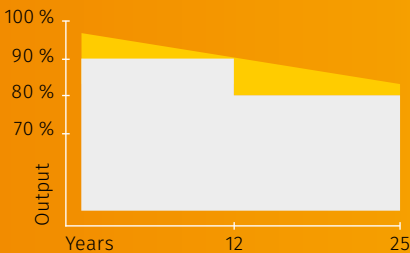
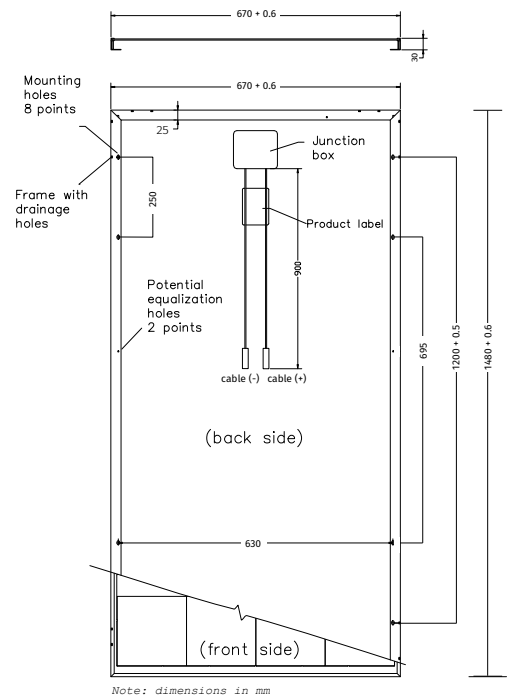
TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.037
Temperature coefficient Voc	%/°C	-0.266
Temperature coefficient Pmax	%/°C	-0.366
NMOT *	°C	45
Operating temperature	°C	from -40 to +85

* Nominal Operating Cell Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1480 x 670 x 30 mm
Weight	10 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	36 monocrystalline cells 156 x 156 mm
Backsheet	Composite multilayer film
Frame	Anodized aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 68 approved
Cables	900 mm, assembled with MC4-combinable plugs



Market standard performances
OffgridSun performances

Performance guarantee

Max power decrease: 0.7%/year over a 25 year module duration.

- 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

OffgridSun

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