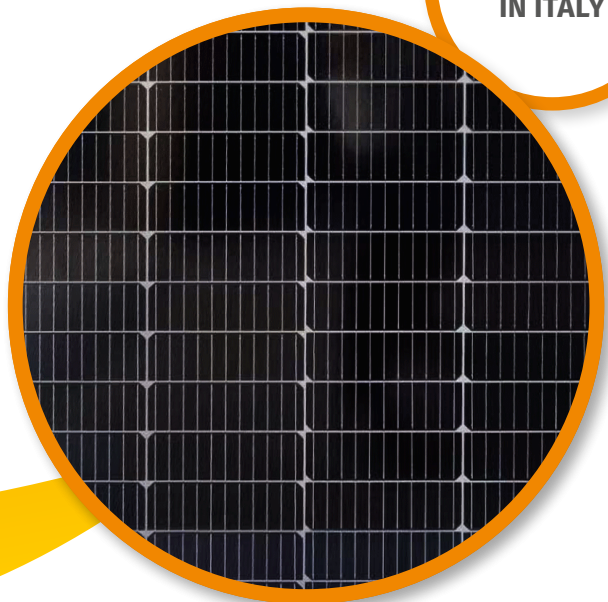
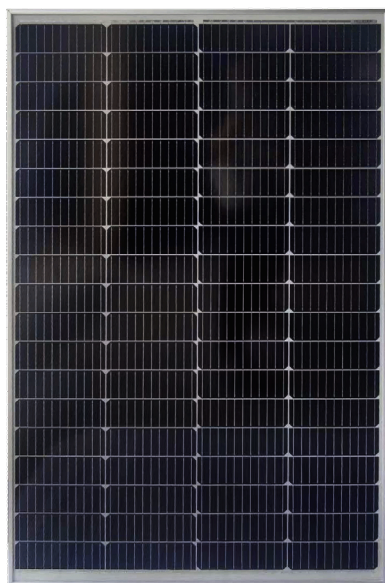


Solar Module 190 W for Off-Grid Applications



DESIGNED
IN ITALY

FU 190 M Nova Monocrystalline 72 cells

- **10-year product warranty**
- Positive sorting of power classes 0-3 Wp
- **Tempered 3.2 mm safety glass** for optimal mechanical stability and transparency
- **Ideal for off-grid applications**
- **Maximum resistance against hail** (83 km/h)
- High mechanical stability (snow load 5400 Pascal)
- 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 Nova	
<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	25.84
Short circuit current (Isc)	A	9.14
Maximum power voltage (Vmpp)	V	22.04
Maximum power current (Impp)	A	8.62
Module efficiency	%	19.16
<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>		
Module power (Pmax)	W	152
Open circuit voltage (Voc)	V	25.55
Short circuit current (Isc)	A	7.31
Maximum power voltage (Vmpp)	V	22.04
Maximum power current (Impp)	A	6.90

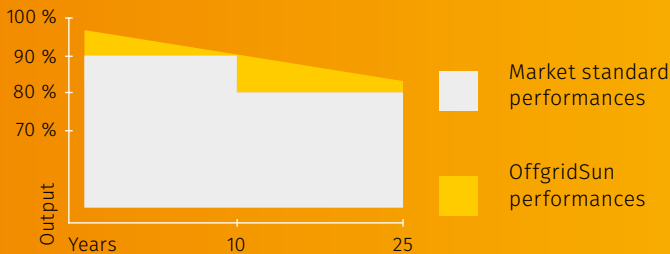
TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	+0.05
Temperature coefficient Voc	%/°C	-0.29
Temperature coefficient Pmax	%/°C	-0.34
NMOT *	°C	45
Operating temprature	°C	from -40 to +85

* Nominal Operating Cell Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1250 x 763 x 30 mm
Weight	10.2 kg
Glass	3.2 mm, high transmission, tempered glass
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	72 monocrystalline PERC cells 182 x 60.66 mm
Backsheet	Composite multilayer film - White
Frame	Silver aluminum frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 68 approved
Cables	Lenght 900 mm, assembled with MC4-combinable plugs



Performance guarantee

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

- 98% at the end of first year
- 90% at the end of 12th year
- 80% at the end of 25th year

Product guarantee

10 years



OffgridSun

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