

# Solar Module 160 W for Off-Grid Applications



DESIGNED  
IN ITALY

8 QUALITY  
CERTIFICATIONS



## Polycrystalline 36 cells

- **12-year product warranty**
- Positive sorting of power classes 0-5 Wp
- **4 bus-bar high-efficiency cells**  
to decrease ohmic losses and increase the yield
- **Tempered safety 3.2 mm glass**  
to optimize the balance between mechanical stability and transparency
- **High mechanical stability against wind**  
(5400 Pascal)
- **Maximum resistance against hail**  
(83 km/h)
- Water-repellent, high-transmittance and antireflection coating glass,  
**to increase yield and avoid dust deposition**



## ELECTRICAL DATA

MODULE		FU 150 P	FU 155 P	FU 160 P
<i>Standard Test Conditions (STC): 1000 W/sqm - AM 1.5 - 25 °C - measuring tolerance &lt;3%</i>				
Module power (Pmax)	W	150	155	160
Module efficiency	%	15.1	15.6	16.1
Maximum power voltage (Vmpp)	V	17.9	18.25	18.65
Maximum power current (Imp)	A	8.38	8.5	8.59
Open circuit voltage (Voc)	V	22.2	22.6	23
Short circuit current (Isc)	A	8.9	9.04	9.18

## TEMPERATURE RATINGS

Temperature coefficient (Isc)	%/°C	0.06
Temperature coefficient (Voc)	%/°C	-0.26
Temperature coefficient (Pmax)	%/°C	-0.36
NOCT *	°C	45
Operating temprature	°C	from -40 to +85

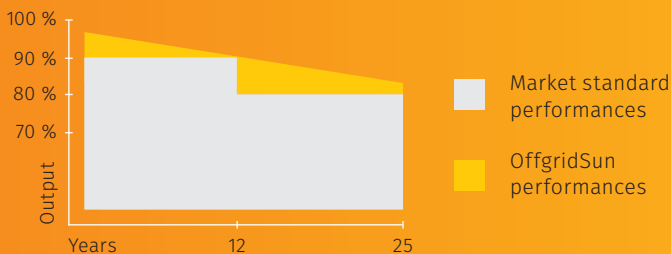
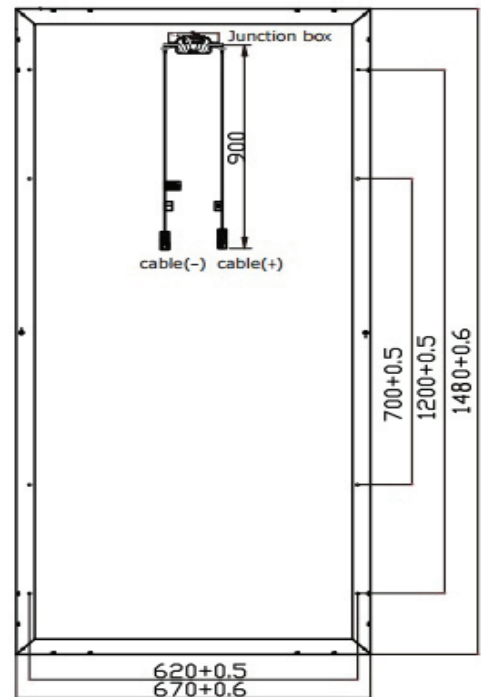
\* Nominal Operating Cell Temperature

## MECHANICAL SPECIFICATIONS

Dimensions	1480 x 670 x 30 mm
Weight	12 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	36 polycrystalline 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

## CERTIFICATIONS

- IEC 61215, IEC 61730 & Factory Inspection 2016
- IEC 668-2-68:1994-08 Dust & Sand Resistance
- IEC61701:2011 Salt Spray Corrosion Resistance
- PID Test: Class A Potential Induced Degradation
- Fire Resistance: Class 1
- IEC 62716:2013 Ammonia Corrosion



## 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 12<sup>th</sup> year
- 82% at the end of 25<sup>th</sup> year

## Product guarantee

12 years

