



5BB POLYCRYSTALLINE 36 Cells **ODULE 160W -165W**

We represent the leading figure in the field of renewable energy in the local market and constantly expanding on the african, asian and european continents.

With two production units in Tunisia relying on German technology and processes for modules production We are in a constant challenge to keep up with the demand of the market by an R&D team who is willing to respond to all existing trends in the solar technology sector.

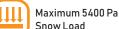
"It's really kind of cool to have solar panels on your roof."

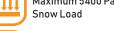
Bill Gates

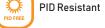


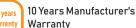
Key Features











Positive Power Tolerance Guaranteed (0-5Wp)





Outstanding Weather



Resistance

Comprehensive Certificates

- -IEC 61215, IEC 61730:2016
- -ISO 9001:2015 Quality Management Systems
- -ISO 14001: 2015 Environmental Management Systems
- -OHSAS 18001: 2007 Occupational Health and Safety Management Systems
- -BS OHAS 18001: 2007 design manufacturing and sales of photovoltaic Modules
- -UL 1703 Certified Product

Warranty Graphic



High Linear Performance Guarantee

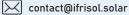
10 year Manufacturer Guarantee on 92% of the Nominal performance

25 year Manufacturer Guarantee on 80.7% of the Nominal performance











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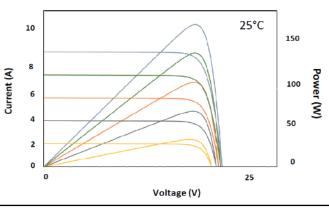


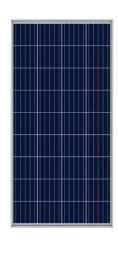


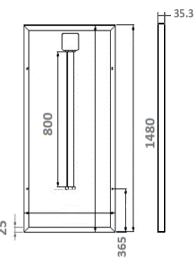


Technical Drawings

${\tt Current-Voltage/Power-Voltage\,Curves, IF-P160-36}$







1000 W/m² 800 W/m² 600 V	W/m² —— 400 W/m² —— 200 W/m²
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Electrical Specification						
Module Type	Nominal Power Pmpp	Nominal Voltage Umpp	Nominal Current Impp	Open Circuit Voltage Uoc	Short Circuit Current Isc	Module Conversion Efficiency
IF-P160-36	160 Wp	19.62 V	8.35 A	23.01 V	8.81 A	16.03 %
IF-P165-36	165 Wp	19.94 V	8.49 A	23.14 V	8.96A	16.54 %

 $Electrical \ Data \ at \ STC \ (STANDARD \ TEST \ CONDITIONS): 1000 \ W/m^2 \ Irradiance, 25 ^{\circ}C \ Cell \ Temperature, AM1.5g \ Spectrum \ According \ to \ EN \ 60904-3, and a support \ AM2.5g \ Spectrum \ AM3.5g \ Spectru$

NMOT

Module Type	Nominal Power Pmpp	Nominal Voltage Umpp	Nominal Current Impp	Open CircuitVoltage Uoc	Short Circuit Current Isc
IF-P160-36	116.16 Wp	17.92V	6.61 A	21.12 V	6.94 A
IF-P165-36	119.79 Wp	19.21 V	6.73 A	21.24 V	7.08 A

Electrical Data at NMOT: 800W/m² Irradiance, 20°C Ambient Temperature, 1m/s Power Measurement Tolerance: +/-3%,

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Front Glass	3.2mm High Transmittance and White Glass
Encapsulant	Ethylene Vinyl Acetate (E.V.A)
Cell	5BB Polycrystalline High Efficiency/ 36pcs
Backside	Composite Film(white, black,)
Frame	35.3mm Anodized Aluminum(Silver/Black)

Mechanical Specification

Dimensions (H x W x D)	1480mm × 674mm × 35.3mm
Weight	12.5Ka

Power Connection	
Junction Box	IP67 Junction Box with 2 Bypass Diodes
Cable Solar Cable	Length 800 mm, 4mm² Prefabricated with MC4-Combined Plug
Application Class	Class II (According to IEC 61730)

Li	m	t	Va	lu	es

Maximum System Voltage	1000VDC
Maximum Series Fuserataings	12A
Limitting Reverse Current	12A
NMOT	45±2°C
Operating Temperature	From -40°C to 85°C
Maximum Load	2400N/m²
Temprature Coefficients	
Voltage Uoc	-0.30% /°C
Current ISC	+0.06% /°C
Output Power	-0.38% /°C

Packaging Specifications

Dimensions (HxWxD)	1500mm × 1120mm × 800mm
Module Quantity per carton	31
Module Qty per carton 20 in	651
Module per container 40 in HC	1395











