

5BB MONO CRYSTALLINE MODULE 36 Cells 185W -190W

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.

We will have to cover the entire surface of the Earth in solar cells if we want to continue to grow our energy usage.

Jeff Bezos

Key Features



Excellent Low Light Performance



Positive Power Tolerance Guaranteed (0-5Wp)



Maximum 5400 Pa Snow Load



Maximum 2400 Pa Wind Load



PID Resistant

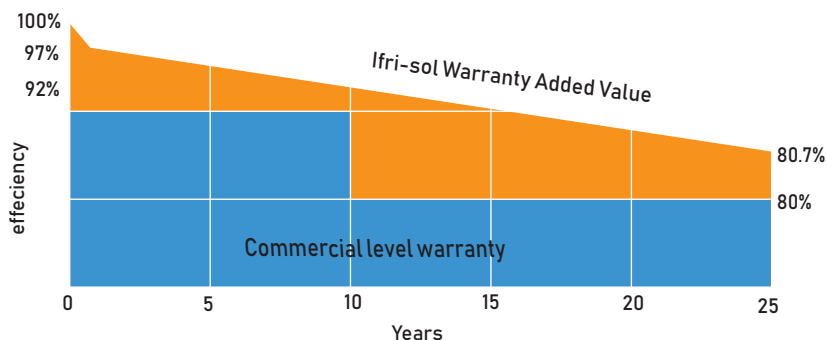


Outstanding Weather Resistance



10 Years Manufacturer's Warranty

Warranty Graphic



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

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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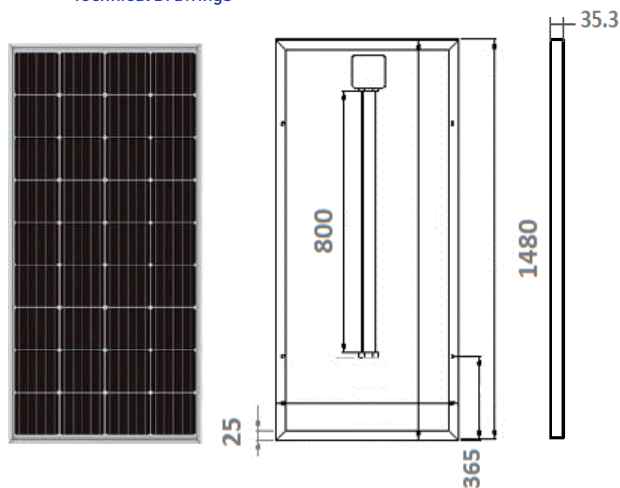
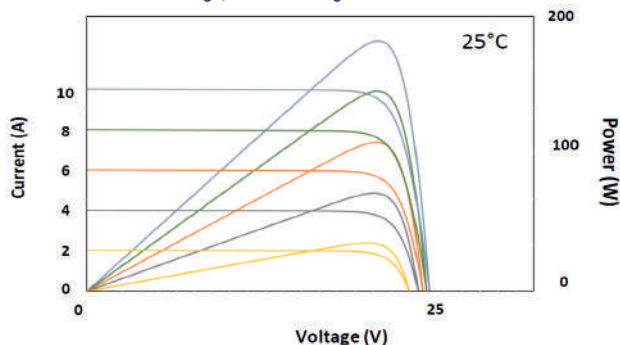


Ifrisol1

This product was designed and manufactured by Ifrisol Corp. in the Republic Tunisia and have been certified by the renowned German labs and facilities.

Technical Drawings

Current-Voltage/Power-Voltage Curves, IF-M190-36



Electrical Specification

Module Type	Nominal Power P _{mpp}	Nominal Voltage U _{mpp}	Nominal Current I _{mpp}	Open Circuit Voltage U _{oc}	Short Circuit Current I _{sc}	Module Conversion Efficiency
IF-M185-36	185 wp	19.69 V	9.44A	24.18 V	9.90A	18.54 %
IF-M190-36	190 wp	20.09 V	9.56A	24.48 V	10.05 A	19.04 %

Electrical Data at STC (STANDARD TEST CONDITIONS): 1000W/m² Irradiance, 25°C Cell Temperature, AM1.5g Spectrum According to EN 60904-3.

NMOT

Module Type	Nominal Power P _{mpp}	Nominal Voltage U _{mpp}	Nominal Current I _{mpp}	Open Circuit Voltage U _{oc}	Short Circuit Current I _{sc}
IF-M185-36	136.21 wp	18.10 V	7.54 A	22.28 V	7.92 A
IF-M190-36	139.90 wp	18.47 V	7.63 A	21.56 V	8.04 A

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

Design

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

Limit Values

Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	12A
Limiting Reverse Current	12A
NMOT	45±2°C
Operating Temperature	From -40°C to 85°C
Maximum Load	2400N/m²

Temperature Coefficients

Voltage U _{oc}	-0.30% / °C
Current I _{sc}	+0.06% / °C
Output Power	-0.38% / °C

Mechanical Specification

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

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)

Packaging Specifications

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

Caution: Technical data are subject to change without any notice, errors expected