



## High Performance Photovoltaic Modules

5BB PERC MONO CRYSTALLINE MODULE  
390W-3950W-400W

### Key Features:



10 Years Manufacturer's Warranty



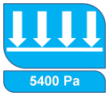
Positive Power tolerance is Guaranteed (0 to 5 Wp)



Excellent Low Light Performance



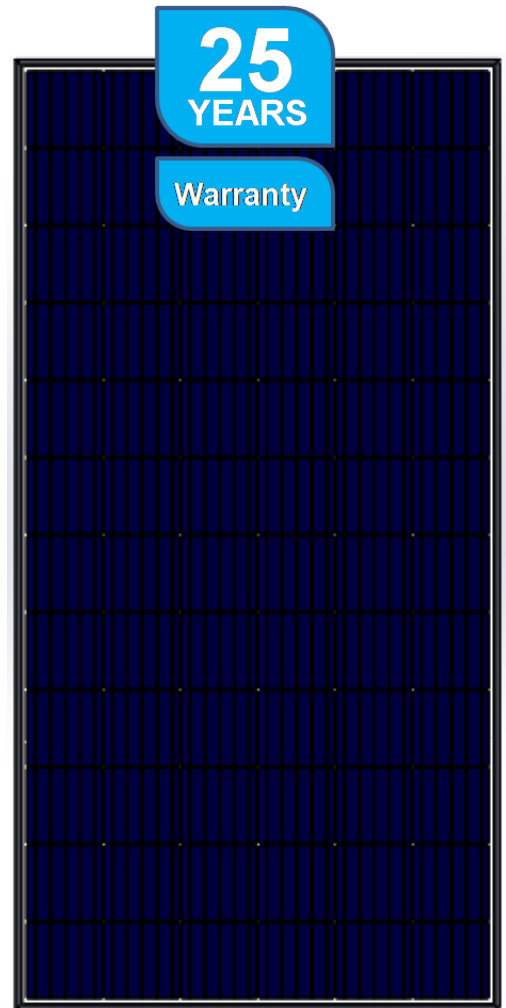
Excellent Outstanding Weather-Resistance



Maximum 5400 Pa Snow Load



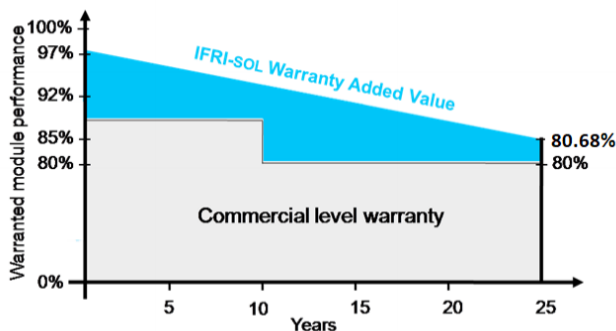
Maximum 2400 Pa Wind Load



## Linear High Performance Guaranteed

10 Years Product Warranty on 90.88% of the Nominal Performance<sup>1</sup>

25 Years Linear Power Output Warranty on 80.68% of the Nominal Performance<sup>1</sup>



<sup>1</sup>According to the IFRI-SOL Product and Performance Warranty

### Certifications

- IEC 61215, IEC 61730: **ID 1111220240**
- IEC 61701:2011, EN 61701:2012: **ID 1111223964**
- IEC 62716:2013, EN 62716:2013: **ID 1111223965**
- Management system TÜV-Certified  
ISO 9001:2015: **ID 011001317684**
- ISO 14001: 2015: **ID 011041317684**
- BS OHSAS 18001:2007: **ID 011131317684**
- IS 14286 / IEC 61215, IS/IEC 61730 - 1&2: **R- 41151432**



## Electrical Specification

Module Type	Nominal Power P <sub>mpp</sub>	Nominal Voltage U <sub>mpp</sub>	Nominal Current I <sub>mpp</sub>	Open Circuit Voltage U <sub>oc</sub>	Short Circuit Current I <sub>sc</sub>	Module Conversion Efficiency
IF-M390-72	390Wp	39.34V	9.94A	48.71V	10.37A	19.35%
IF-M395-72	395Wp	39.47V	10.04A	49.02V	10.70A	19.59%
IF-M400-72	400Wp	39.62V	10.10A	49.31V	10.77A	19.84%

Electrical Data at STC (STANDARD TEST CONDITIONS): 1000W/m<sup>2</sup> Irradiance, 25°C Cell Temperature, AM1.5g Spectrum According to EN 60904-3.

## NMOT

Module Type	Nominal Power P <sub>mpp</sub>	Nominal Voltage U <sub>mpp</sub>	Nominal Current I <sub>mpp</sub>	Open Circuit Voltage U <sub>oc</sub>	Short Circuit Current I <sub>sc</sub>
IF-M390-72	288.14Wp	37.47V	7.69A	45.59V	8.06A
IF-M395-72	293.13Wp	38.02V	7.71A	45.73V	8.10A
IF-M400-72	296.43Wp	38.20V	7.76A	45.98V	8.67A

Electrical data at NMOT: 800W/m<sup>2</sup> irradiance, 20°C Ambient temperature, 1m/s Wind Speed.

## Design

Front Glass	3.2mm High Transmission, Anti-Reflection Coating, Tempered Glass.
Encapsulant	Ethylene Vinyl Acetate (E.V.A)
Cell	5 BB Monocrystalline High Efficiency / 72pcs (158.75mm*158.75mm)
Backside	Composite Film (White, Black, ...)
Frame	35mm Anodized Aluminum (Silver/Black)

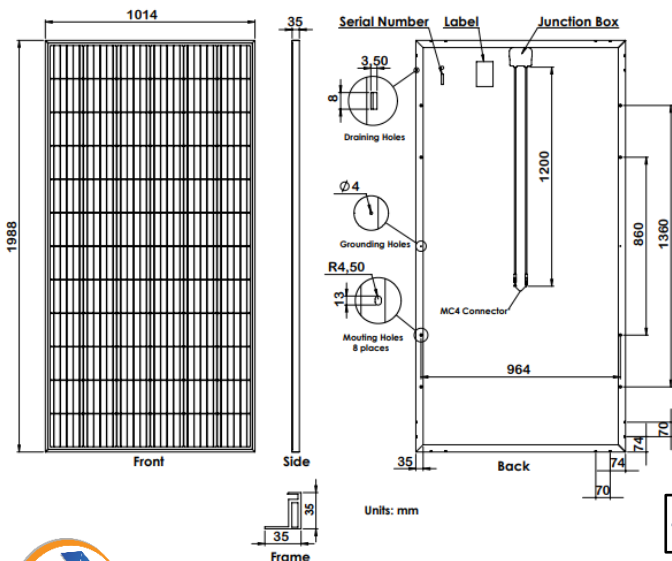
## Mechanical Specification

Dimensions (H×W ×D)	1988mm×1014mm×35mm
Weight	23.5Kg

## Power Connection

Junction box	IP68 Junction Box with 3 Bypass Diodes
Cable solar cable	Length (1000/1200) mm , 4mm <sup>2</sup> Prefabricated with MC4-Combined Plug
PV Module Classification	Class II (According to IEC 61730)

## Drawings



## Limit Values

System Voltage	1500VDC
NMOT	45±2°C
Rated Current	16A
Limiting Reverse Current	16A
Operating Temperature	From -40°C to 85°C
Maximum Load	2400N/m <sup>2</sup>

## Temperature Coefficients

Voltage U <sub>oc</sub>	-0.2586%/°C
Current I <sub>sc</sub>	+0.0031%/°C
Output power	-0.3755%/°C

## Packaging Specification

Dimensions (H×W ×D)	2013mm×1120mm×1175mm
Modules Qty per Carton	31
Modules Qty per Container 20°	310
Modules Qty per Container 40° HC	737

## Current-Voltage/Power-Voltage Curves, IF-M390-72

