

SIRIUS 5BB PERC BIFACIAL MODULE 72 Cells 380W – 385W – 390W

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.

"Most plentiful, accessible, and least expensive power source in the world."
Danny Kennedy

Key Features



Excellent Low Light Performance



Positive Power Tolerance Guaranteed (0-5Wp)



Maximum 5400 Pa Snow Load



Maximum 2400 Pa Wind Load



PID Resistant

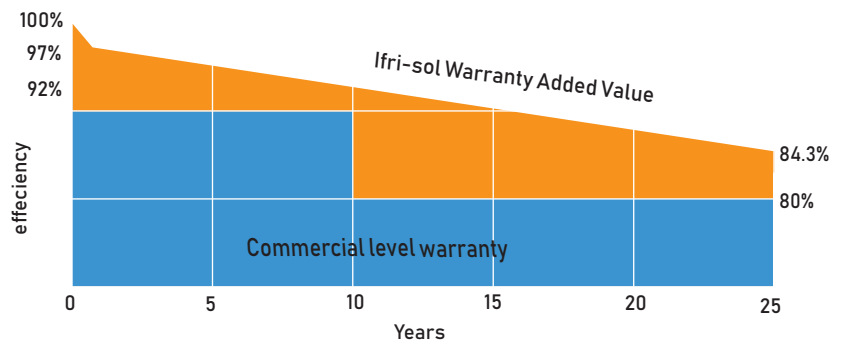


Outstanding Weather Resistance



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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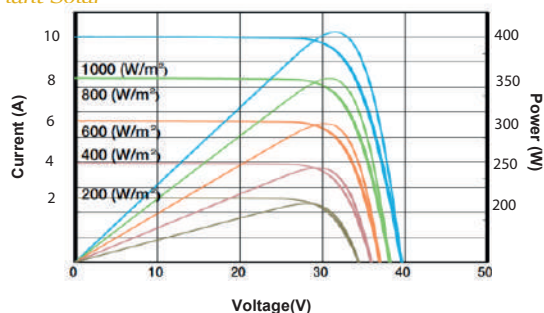
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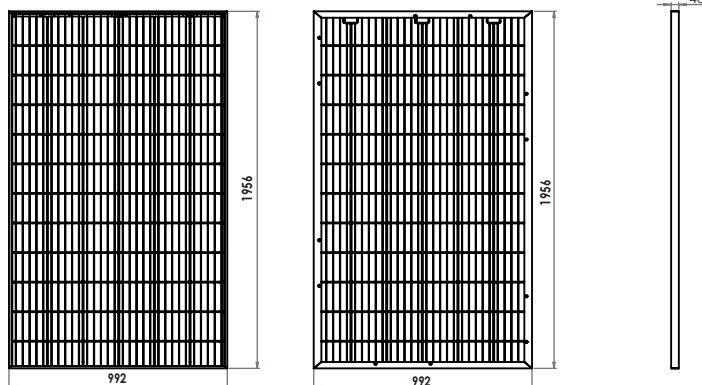
IfriSol1

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

Current Voltage Curve IF-BTM380-72



Technical Drawings



Electrical Specification

Module Type	Nominal Power P _{mp}	Nominal Voltage U _{mp}	Nominal Current I _{mp}	Open Circuit Voltage U _{oc}	Short Circuit Current I _{sc}	Module Conversion Efficiency
IF-BTM380-72	380 wp	40.86 V	9.30A	48.82V	9.87A	19.58%
IF-BTM385-72	385 wp	41.17 V	9.35A	49.12V	9.90A	19.84%
IF-BTM395-72	390 wp	41.48 V	9.40A	49.43V	9.95A	20.09%

Electrical data at STC (STANDARD TEST CONDITIONS): 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.

Electrical Characteristics with different Rear Side Power Gain (references to 385)

	5%	10%	15%	20%	25%
Back side power gain					
Related Max Power (P _{max}) [W]	404	424	443	492	481
Open Circuit Voltage (U _{oc}) [V]	49.12	49.12	49.12	49.22	49.22
Max Power Voltage (U _{mp}) [V]	41.17	41.17	41.17	41.27	41.27
Short Circuit Current (I _{sc}) [A]	10.40	10.91	11.41	11.92	12.42
Max Power Current (I _{mp}) [A]	9.81	10.29	10.76	11.19	11.65

Remark: Substantial gains in energy yield can be achieved by using a high albedo surface below and around the modules.

Design

Front Glass	3.2mm High Transmittance and White Glass
Encapsulant	Ethylene Vinyl Acetate (E.V.A)
Cell	5BB Bifacial Monocrystalline PERC High Efficiency /72 pcs
Backside	Transparent Backsheet for Bi-facial Module
Frame	40mm Anodized Aluminum (Silver/Black)

Mechanical Specification

Dimensions (H x W x D)	1956mm x 992mm x 40mm
Weight	23Kg

Power Connection

Junction Box	3 x IP67 junction box / 3 bypass diodes (clamping//soldering)
Cable Solar Cable	Length 500 mm , 4mm² Prefabricated with MC4-Combined Plug
Application Class	Class A (According to IEC 61730)

Limit Values

System Voltage	1500VDC
NOCT	45±2° C
Related Current	16A
Opening Temperature	From -40° C to 85° C
Maximum Load	2400N/m²
Bifaciality	70% ± 5%

Temperature Coefficients

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

Packaging Specifications

Dimensions (HxWxD)	1980mm x 1120mm x 1160mm
Module Quantity per carton	27
Module Qty per carton 20 in	270
Module per container 40 in HC	649