




High Performance Bifacial with Transparent Backsheet Photovoltaic Modules

5BB BIFACIAL MONO PERC CRYSTALLINE MODULE
320W-325W-330W

Key Features:

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10 Years Manufacturer's Warranty
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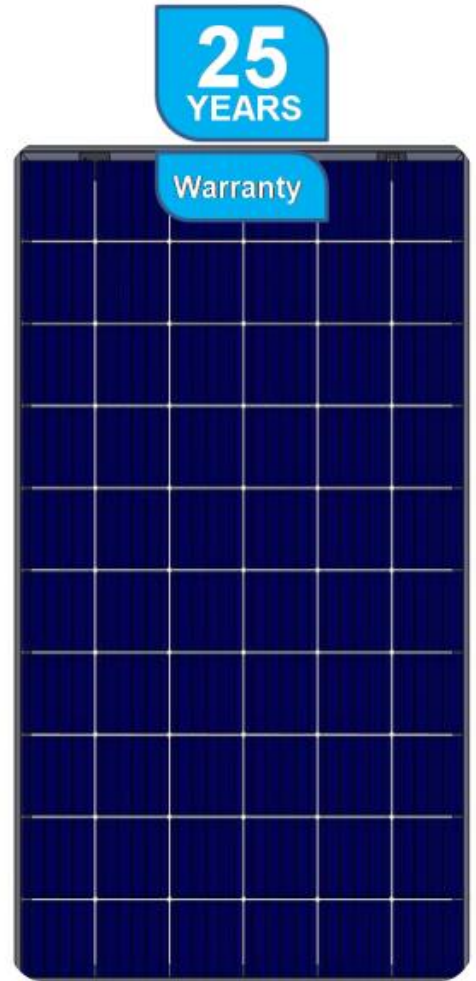
Positive Power Tolerance is Guaranteed (0 to 5 Wp)
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Excellent Low Light Performance
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Excellent Outstanding Weather-Resistance
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Maximum 5400 Pa Snow Load
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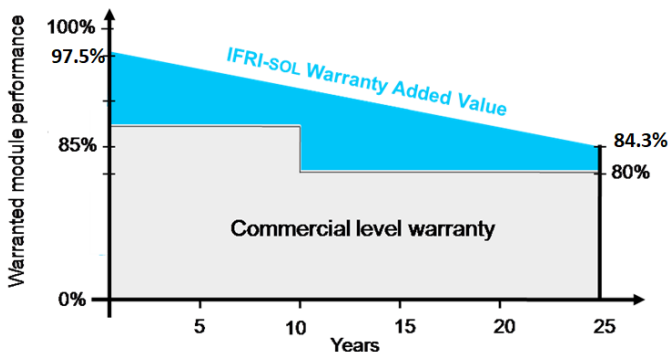
Maximum 2400 Pa Wind Load



Linear High Performance Guarantee

10 Years Product Warranty On 92.55% Of The Nominal Performance¹

25 Years Linear Power Output Warranty on 84.30% of the Nominal Performance¹



¹According to the IFRI-SOL Product and Performance Warranty.

Certifications

- Management system TÜV-Certified
ISO 9001:2015: ID 011001317684
- ISO 14001: 2015: ID 011041317684
- BS OHSAS 18001:2007: ID 011131317684



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-BTM320-60	320 Wp	34.10V	9.39A	40.79V	10.09A	18.68%
IF-BTM325-60	325 Wp	34.27V	9.49A	41.05V	10.16A	18.98%
IF-BTM330-60	330 Wp	34.61V	9.54A	41.31V	10.25A	19.27%

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 (Reference to 320 front)

Backside Power Gain	5%	10%	15%	20%	25%
Rated Max Power (P _{max}) [W]	336	352	368	384	400
Open Circuit Voltage (U _{oc}) [V]	40.80	40.80	40.80	40.90	40.90
Max Power Voltage (U _{mpp}) [V]	34.10	34.10	34.10	34.20	34.20
Short Circuit Current (I _{sc}) [A]	10.40	11.10	11.60	12.10	12.61
Max Power Current (I _{mpp}) [A]	9.85	10.32	10.79	11.22	11.69

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

Design

Front Glass	3.2mm High Transmission Low Iron Tempered Glass, AR Coated
Encapsulant	Ethylene Vinyl Acetate (E.V.A)
Cell	5BB Bifacial Mono-Crystalline/158.75*158.75mm / 60 pcs
Backside	Transparent Backsheet for Bi-facial Module
Frame	35mm Anodized Aluminum (Silver/Black)

Mechanical Specification

Dimensions (H×W ×D)	1689mm×1014mm×35mm
Weight	19.5Kg

Power Connection

Junction Box	3×IP68 Junction Box With Bypass Diodes
Solar Cable	Length 300mm , 4mm ² Prefabricated with MC4-Combined Plug
PV Module Classification	Class II (According to IEC 61730)

Limit Values

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	16A
Limiting Reverse Current	16A
NMOT	45±2°C
Operating Temperature	From -40°C to 85°C
Maximum Load	2400N/m ²
Bifaciality*	70% ± 5%

*Bifaciality= P_{max,rear}/Rated P_{max,front}

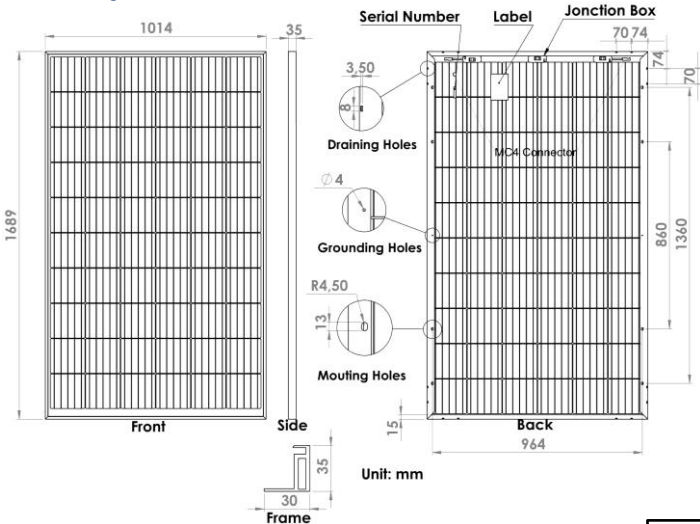
Temperature Coefficients

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

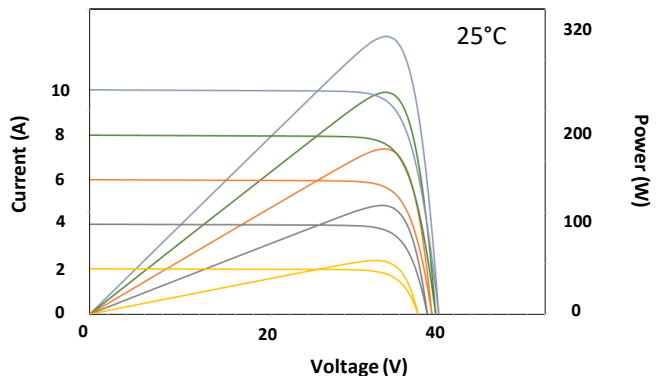
Packaging Specification

Dimensions (H×W ×D)	1715mm×1120mm×1175mm
Modules Qty per Carton	31
Modules Qty per Container 20'	372
Modules Qty per Container 40' HC	871

Drawings



Current-Voltage/Power-Voltage Curves, IF-BTM320-60



— 1000 W/m² — 800 W/m² — 600 W/m² — 400 W/m² — 200 W/m²