






High Performance Photovoltaic Modules


5BB POLY CRYSTALLINE MODULE
160W-165W

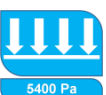
Key Features:


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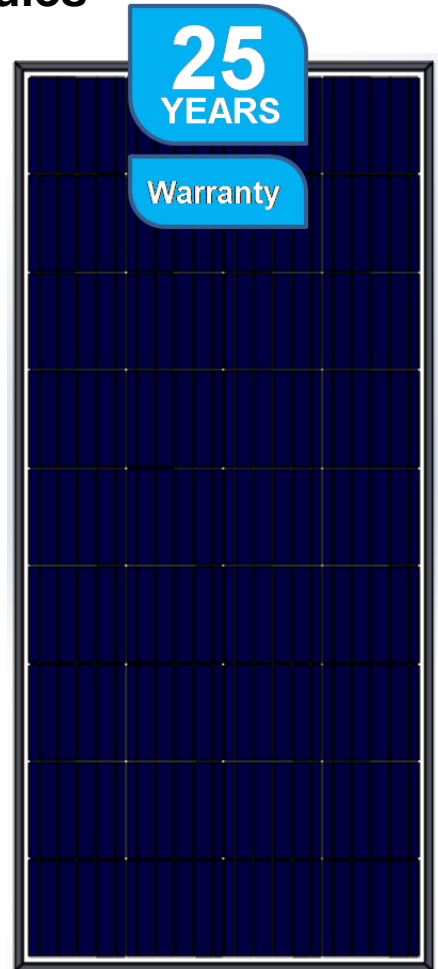
Positive Power Tolerance is Guaranteed (0 to 5 Wp)
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Excellent Low Light Performance
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Excellent Outstanding Weather-Resistance
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Maximum 5400 Pa Snow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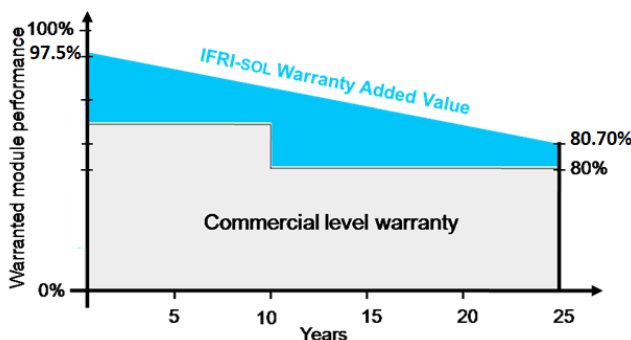
Maximum 2400 Pa Wind Load



Linear High Performance Guaranteed

10 Years Product Warranty on 91.2 % of the Nominal Performance¹

25 Years Linear Power Output Warranty on 80.7 % of the Nominal Performance¹



Certifications

- 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**



¹According to the IFRI-SOL Product and Performance Warranty

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	19.62V	8.35A	23.01V	8.81A	16.03%
IF-P165-36	165 Wp	19.94V	8.49A	23.14V	8.96A	16.54%

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 Pmpp	Nominal voltage Umpp	Nominal current Impp	Open Circuit Voltage Uoc	Short circuit current Isc
IF-P160-36	118.45Wp	17.92V	6.61A	21.12V	6.94A
IF-P165-36	129.28Wp	19.21V	6.73A	21.24V	7.08A

Electrical data at NMOT: 800W/m² Irradiance, 20°C Ambient Temperature, 1m/s Wind Speed.

Design

Front Glass	3.2 mm High Transmission, Anti-Reflection Coating, Tempered Glass
Encapsulant	Ethylene Vinyl Acetate (E.V.A)
Cell	5BB Monocrystalline High Efficiency / 36 pcs (156.75mm*156.75mm)
Backside	Composite Film (White, Black, ...)
Frame	35mm 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/m ²

Mechanical Specification

Dimensions (H×W×D)	1480mm × 674mm × 35mm
Weight	12.5Kg

Temperature Coefficients

Voltage Uoc	-0.30%/°C
Current Isc	+0.055%/°C
Output power	-0.38%/°C

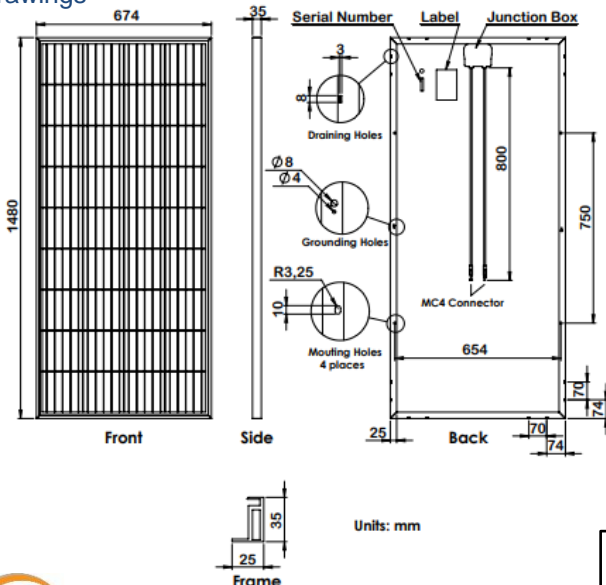
Power Connection

Junction Box	IP67 Junction Box with 2 Bypass Diodes
Solar Cable	Length 800 mm, 4mm ² Prefabricated with MC4-Combined Plug
PV Module Classification	Class II (According to IEC 61730)

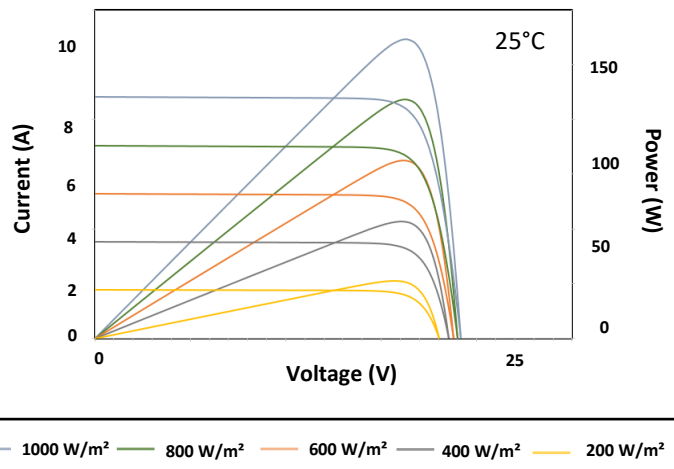
Packaging Specification

Dimensions (H×W×D)	1500mm × 1120mm × 800mm
Modules Qty per carton	31
Modules Qty per container 20"	651
Modules Qty per container 40"	1395

Drawings



Current-Voltage/Power-Voltage Curves, IF-P160-36



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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For more information on IFRI-SOL products please visit www.ifrisol.solar

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