


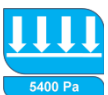



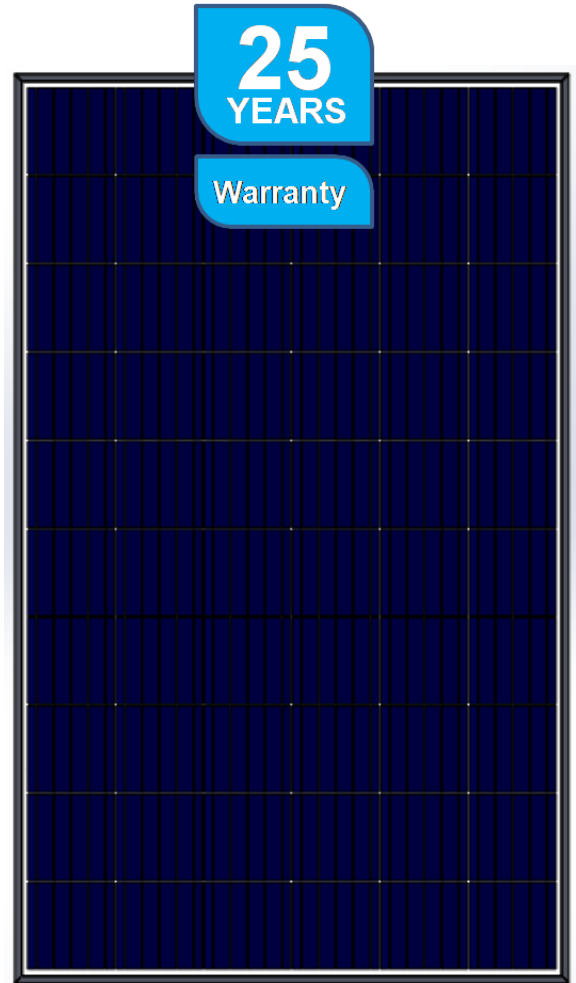


High Performance Photovoltaic Modules

5BB POLY CRYSTALLINE MODULE
270W-275W-280W

Key Features:

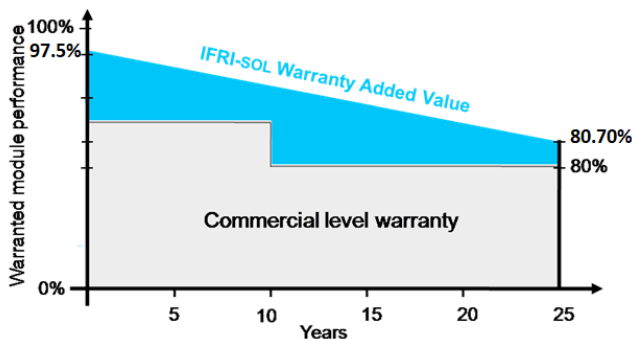
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10 Years Manufacturer's Warranty
- 
Positive Power Tolerance is Guaranteed (0 to 5 Wp)
- 
Excellent Low Light Performance
- 
Excellent Outstanding Weather-Resistance
- 
Maximum 5400 Pa Snow Load
- 
Maximum 2400 Pa Wind Load



Linear High Performance Guaranteed

10 Years Product Warranty on 91.20% of the Nominal Performance¹

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



¹According 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 _{mpp}	Nominal Voltage U _{mpp}	Nominal Current I _{mpp}	Open Circuit Voltage U _{oc}	Short Circuit Current I _{sc}	Module Conversion Efficiency
IF-P270-60	270Wp	32.70V	8.35A	38.34V	8.81A	16.38%
IF-P275-60	275Wp	32.71V	8.49A	38.58V	8.96A	16.68%
IF-P280-60	280Wp	32.82V	8.54A	38.70V	8.99A	16.99%

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-P270-60	196.02Wp	29.88V	6.64A	35.08V	6.96A
IF-P275-60	199.65Wp	29.89V	6.75A	35.30V	7.08A
IF-P280-60	203.28Wp	29.99V	6.79A	35.41V	7.10A

Electrical data at NMOT: 800W/m² 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	5BB Polycrystalline High Efficiency / 60 pcs (156.75mm*156.75mm)
Backside	Composite Film (White, Black, ...)
Frame	35mm Anodized Aluminum (Silver/Black)

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

Mechanical Specification

Dimensions (H×W×D)	1645mm × 1002mm × 35mm
Weight	19.5Kg

Temperature Coefficients

Voltage U _{oc}	-0.320%/°C
Current I _{sc}	+0.005%/°C
Output Power	-0.410%/°C

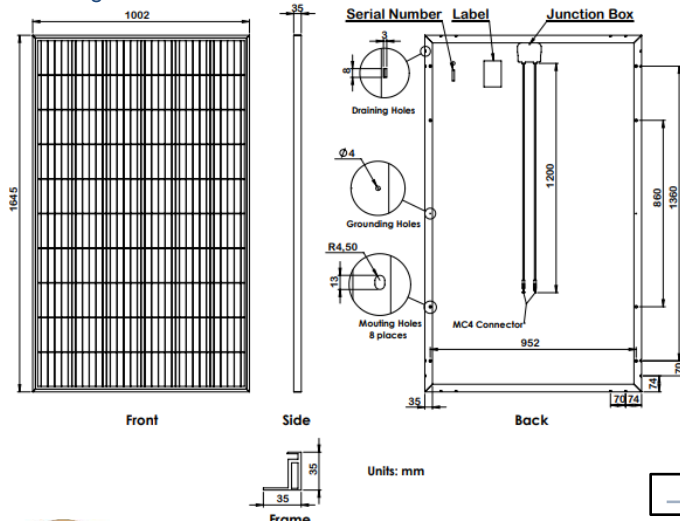
Power Connection

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

Packaging Specification

Dimensions (H×W×D)	1670mm × 1120mm × 1170mm
Modules Qty per Carton	31
Modules Qty per Container 20"	372
Modules Qty per Container 40" HC	938

Drawings



Current-Voltage/Power-Voltage Curves, IF-P270-60

