

High Performance Half-Cut Cell Photovoltaic Modules

5BB PERC MONO CRYSTALLINE MODULE
335W-340W-345W-350W

Key Features:



Half Cell Technology



Lower The Risk Of Hot Spot



Higher Power Output



High snow (5400Pa) and Wind Loads (2400Pa)



Dual EL Inspection



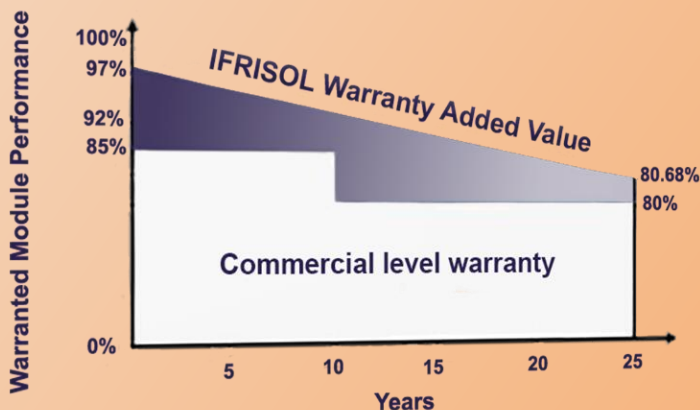
Excellent Low Light Performance



Linear High Performance Guaranteed

10 Years Product Warranty on 90.88% of the Nominal Performance¹

25 Years Linear Power Output Warranty on 80.68% 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
- ISO 45001:2018: ID 011131815622



Precisely Right.



IF-HM335-120
IF-HM340-120
IF-HM345-120
IF-HM350-120

Electrical Specification

| Module Type | Nominal Power Pmpp | Nominal Voltage Umpp | Nominal Current Imp | Open Circuit Voltage (Uoc) | Short Circuit Current (Isc) | Module Conversion Efficiency |
|--------------|--------------------|----------------------|---------------------|----------------------------|-----------------------------|------------------------------|
| IF-HM335-120 | 335Wp | 34.61V | 9.68A | 41.39V | 10.23A | 19.79% |
| IF-HM340-120 | 340Wp | 35.02V | 9.71A | 41.63V | 10.25A | 20.09% |
| IF-HM345-120 | 345Wp | 35.43V | 9.74A | 41.87V | 10.27A | 20.39% |
| IF-HM350-120 | 350Wp | 35.83V | 9.77A | 42.11V | 10.29A | 20.68% |

Electrical Data At STC (STANDARD TEST CONDITIONS): 1000W/m² Irradiance, 25°C Cell Temperature, AM1.5g Spectrum According to EN 60904-3. Manufacturing Tolerance (Pmax,Voc,Isc) : ±3%

Performance at low irradiance :

Outstanding performance at low irradiance, with an average relative efficiency of 96.48% from irradiances, between 1000 W/m² and 200 W/m² (AM 1.5, 25°C).

NMOT

| Module Type | Nominal Power Pmpp | Nominal Voltage Umpp | Nominal Current Imp | Open Circuit Voltage (Uoc) | Short Circuit Current (Isc) |
|--------------|--------------------|----------------------|---------------------|----------------------------|-----------------------------|
| IF-HM335-120 | 244.10Wp | 31.80V | 7.68A | 38.20V | 8.28A |
| IF-HM340-120 | 247.90Wp | 32.10V | 7.72A | 38.40V | 8.30A |
| IF-HM345-120 | 251.70Wp | 32.40V | 7.76A | 38.60V | 8.32A |
| IF-HM350-120 | 255.06Wp | 32.70V | 7.80A | 38.80V | 8.34A |

Electrical Data At NMOT: 800W/m² Irradiance, 20°C Ambient Temperature, 1m/s Wind Speed. Manufacturing Tolerance (Pmax,Voc,Isc) : ±3%

Temperature Coefficients

| | |
|------------------|-----------|
| Voltage Uoc (β) | -0.30%/°C |
| Current Isc (α) | +0.06%/°C |
| Output Power (γ) | -0.36%/°C |
| NMOT | 45±2°C |

Design

| | |
|-------------|--|
| Front Glass | 3.2mm High Transmission Low Iron Tempered Glass, AR Coated |
| Encapsulant | Ethylene Vinyl Acetate (E.V.A) |
| Cell | 5BB PERC Mono-Crystalline /158.75 ×79.375mm/ 120 Pcs |
| Backside | Composite Film (White, Black, ...) |
| Frame | 35mm Anodized Aluminum (Silver/Black) |

Operating conditions

| | |
|-----------------------------------|--------------------|
| Maximum System Voltage | 1500VDC |
| Maximum Series Fuse | 20A |
| Operating Temperature Range | From -40°C to 85°C |
| Mechanical Load Test (Front/back) | 5400Pa/2400Pa |

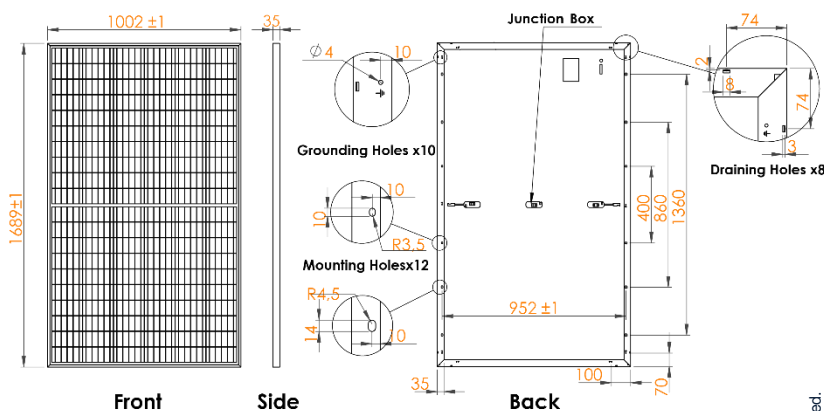
Power Connection

| | |
|--------------|---|
| Junction Box | 3×IP68 Junction Box With Bypass Diodes |
| Solar Cable | Length 300 mm , 4mm ² Prefabricated with Latching Type Connectors |
| Safety Class | Class II (According to IEC 61140) |

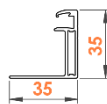
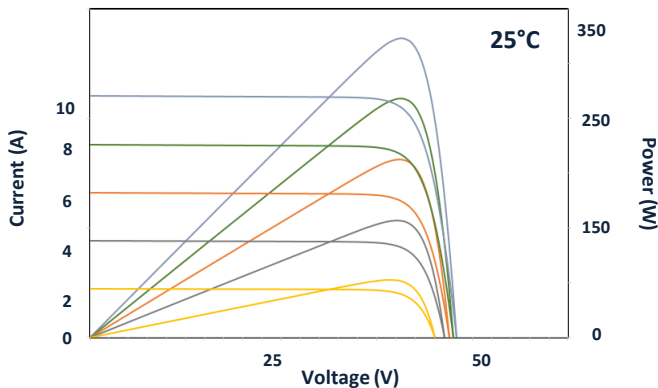
Packaging specification

| | |
|----------------------------------|-----------------------|
| Dimensions (H×W ×D) | 1714mm ×1150mm×1145mm |
| 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-HM345-120



Frame

Tolerance : ±1mm

Mechanical Specification

| | |
|---------------------|----------------------------|
| Dimensions (H×W ×D) | 1689mm×1002mm ×35mm (±1mm) |
| Weight | 20Kg |

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

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