



**AATMANIRBHAR**  
ENERGY FOR NATION



## 305-335 Watt 72 Cell Module POLY CRYSTALLINE SOLAR PV MODULES

**AATMANIRBHAR PV** Modules are manufactured with the highest quality materials and features best in class quality & performance. Our Meticulous product design & stringent quality control ensures our modules deliver an exceptional high PV yield.

### KEY FEATURES



#### 1500 V SYSTEM VOLTAGE

More modules per string. Lower POS cost & yields better LCOE & Overall project cost.



#### RELIABILITY

Triple EL Checking to ensure Defect free Module. 100% inline hi-port testing(HV, IR & Ground Tesing).



#### PID RESISTANCE

Excellent Anti PID Performance Guarantee Limited Power Degradation for Mass Production.



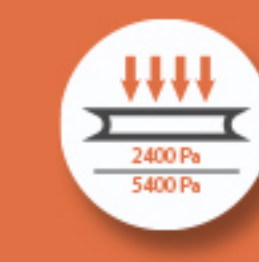
#### LOW LIGHT PERMOMANCE

Advanced Glass & Cell Surface texture design ensure accident permomance in low light environment



#### PREMIUM QUALITY

Built to the most stringent quality in the industry with in house testing facilities for Module and Raw materials.



#### HIGH STRENGTHENED DESIGN

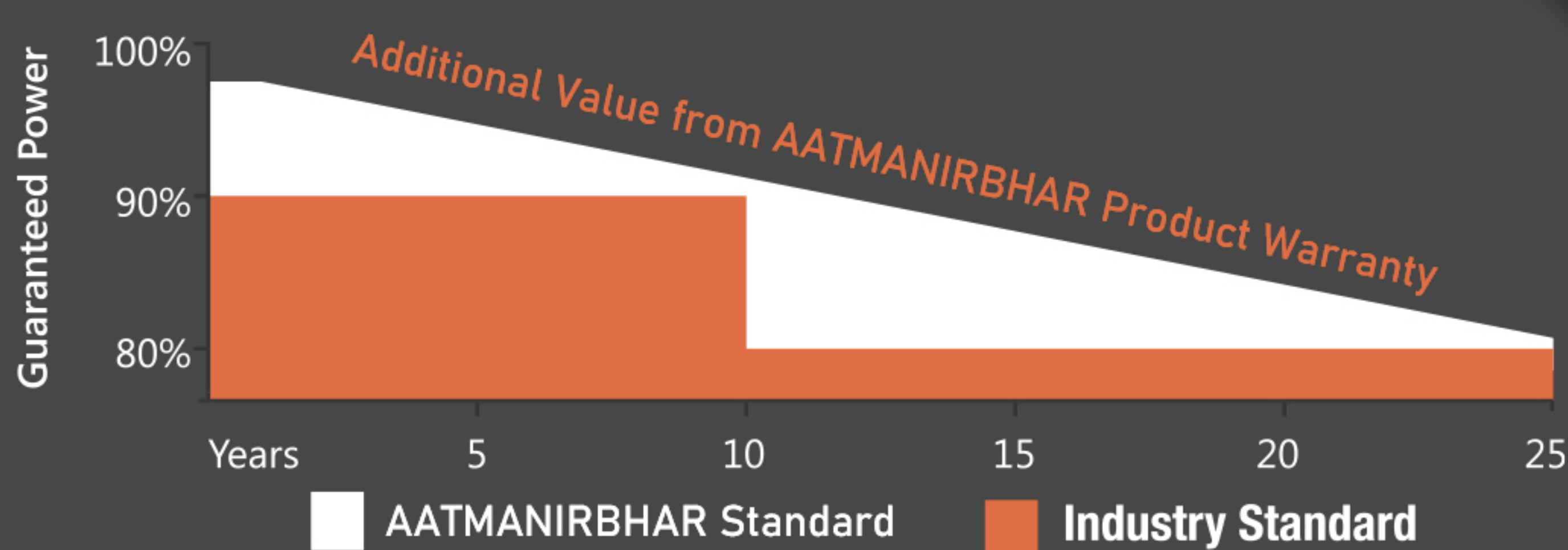
Can withstand maximum 5400 Pa snow load and 2400 Pa Wind load due to super strong frame design.

Excellent Module Efficiency  
Upto 17.25%

Product Warranty 10 Years

Positive Power Tolerance  
Upto 4.99W

### 25 Year Linear Warranty



### Ideal For:



Residential



Commercial



Telecommunication



Off-grid



Utility

IS 13252



R- 72005940

**BIS**

IS14286: 2010/IEC61215 :2005,  
IS/IEC 61730(PART1):2004 &  
IS/IEC 61730(PART2):2004

### Reg. Office :

204/5, Aatish Annexe , 2<sup>nd</sup> Floor, near Samarpan Flats,  
behind IDBI bank, Gulbai Tekra, Ahmedabad- 380 006.

### Factory Address :

Survey No: 192, At Dudhathal Village, Taluko- Kapadvanj,  
Dist. Kheda, Pin 387 620, Gujarat, India.



## ELECTRICAL PERFORMANCE

### Electrical Parameters at Standard Test Conditions (STC)

| Module Type                   | ASPL XXX P72 (XXX= PMAX) |       |       |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power Pmax (Wp)       | 305                      | 310   | 315   | 320   | 325   | 330   | 335   |
| Maximum Voltage Vmpp (V)      | 36.63                    | 36.77 | 36.84 | 36.98 | 37.12 | 37.26 | 37.38 |
| Maximum Current Imp (A)       | 8.33                     | 8.44  | 8.56  | 8.66  | 8.77  | 8.86  | 8.97  |
| Open-Circuit Voltage Voc (V)  | 44.11                    | 44.18 | 44.33 | 44.49 | 44.65 | 44.81 | 44.89 |
| Short-Circuit Current Isc (A) | 8.63                     | 8.75  | 8.86  | 8.96  | 9.06  | 9.16  | 9.28  |
| Module Efficiency (%)         | 15.72                    | 15.98 | 16.23 | 16.49 | 16.75 | 17.01 | 17.26 |

STC: 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 3.0% at 200W/m<sup>2</sup> according to EN 60904-1.

### Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

|                               |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power Pmax (Wp)       | 223.3 | 227   | 230.6 | 234.3 | 238   | 241.6 | 245.3 |
| Maximum Voltage Vmpp (V)      | 34.13 | 34.26 | 34.33 | 34.46 | 34.59 | 34.72 | 34.83 |
| Maximum Current Imp (A)       | 6.54  | 6.62  | 6.72  | 6.8   | 6.88  | 6.96  | 7.04  |
| Open-Circuit Voltage Voc (V)  | 40.28 | 40.34 | 40.48 | 40.63 | 40.77 | 40.92 | 40.99 |
| Short-Circuit Current Isc (A) | 6.97  | 7.07  | 7.16  | 7.24  | 7.32  | 7.4   | 7.5   |

NOCT: open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1 m/s wind speed.

## THERMAL CHARACTERISTICS

|                                    |      |      |          |
|------------------------------------|------|------|----------|
| Nominal Operating Cell Temperature | NOCT | °C   | 46 +/- 2 |
| Temperature Coefficient of Voc     | γ    | %/°C | -0.38    |
| Temperature Coefficient of Isc     | β    | %/°C | +0.07    |
| Temperature Coefficient of Pma     | α    | %/°C | -0.36    |

## OPERATING CONDITIONS

|   |                   |
|---|-------------------|
| Maximum System Voltage                      | 1500Vdc           |
| Maximum Series Fuse Rating                  | 15A               |
| Limiting Reverse Current Rating             | 20A               |
| Operating Temperature Range (°C)            | -40°C to 85°C     |
| Maximum Static Load, Front                  | 5400 Pa (113 Psf) |
| Maximum Static Load, Back (e.g., wind)      | 2400Pa            |
| Max. Hailstone Impact (diameter / velocity) | 25mm / 23m/s      |

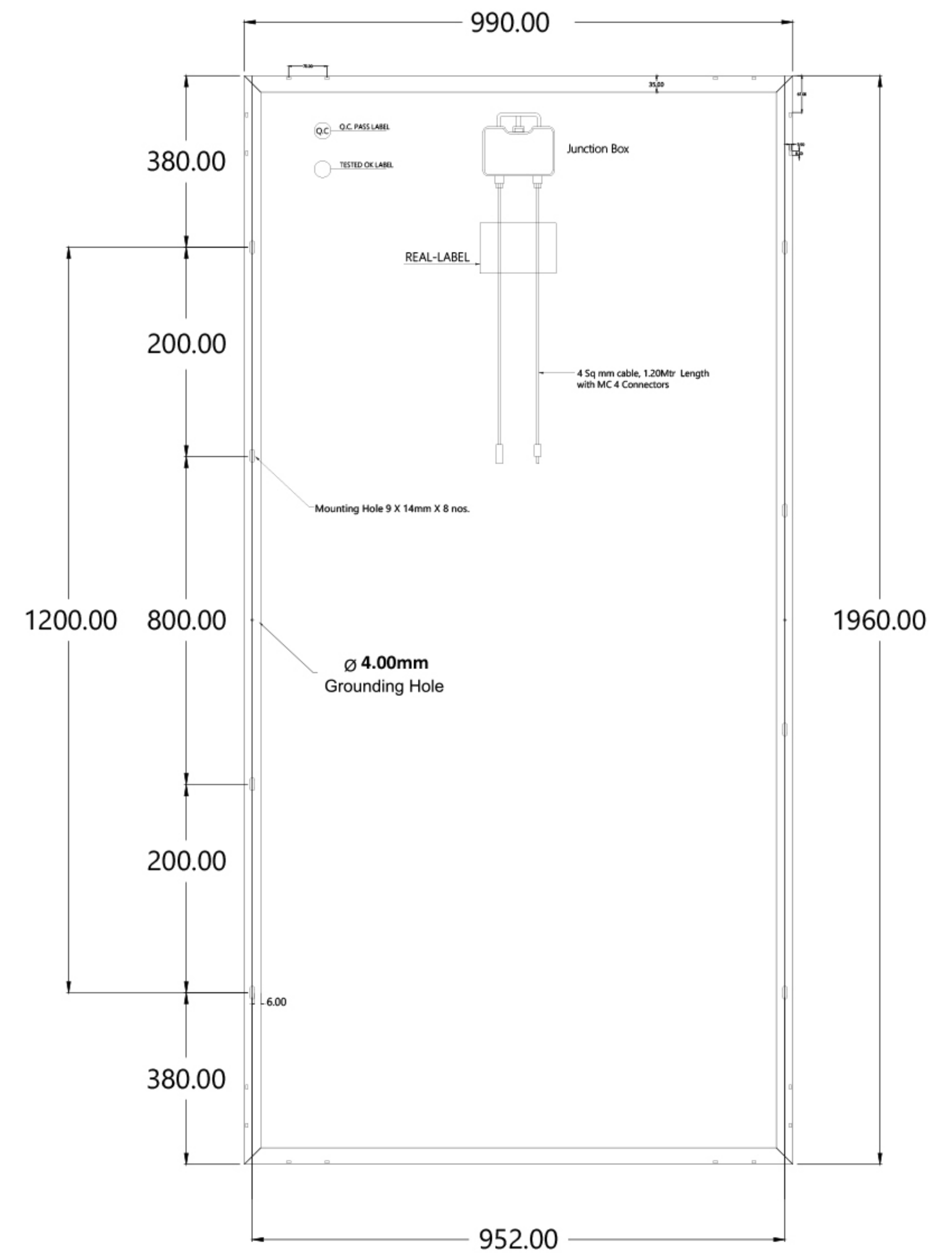
## MECHANICAL DATA

|                        |   |
|------------------------|---|
| Cell Type              | Poly Crystalline 6.25 Inch                                  |
| Cell Arrangement       | 72 (6 X 12)   |
| Dimensions (L / W / H) | 77.16in (1960mm) / 39.40in (990mm) / 1.37in (35mm)          |
| Weight                 | 21.5kg (56.2 lb)  |
| Superstrate ( Glass )  | 3.2 MM -High transmission Low-Iron Tempered Glass AR Coated |
| Frame Material         | Silver Anodized Aluminum Frame With Twin Wall Profile       |
| Cell Encapsulant       | EVA (Ethylene vinyl acetate) - FC/UFC                       |
| Back Sheet             | Composite Film - White (Black and Transparent Optional)**   |
| Junction Box           | IP68  |
| Cable                  | 1.2 Mtr   |
| Connectors             | MC4 Comparable  |
| By- Pass Diodes        | 3 Pcs   |

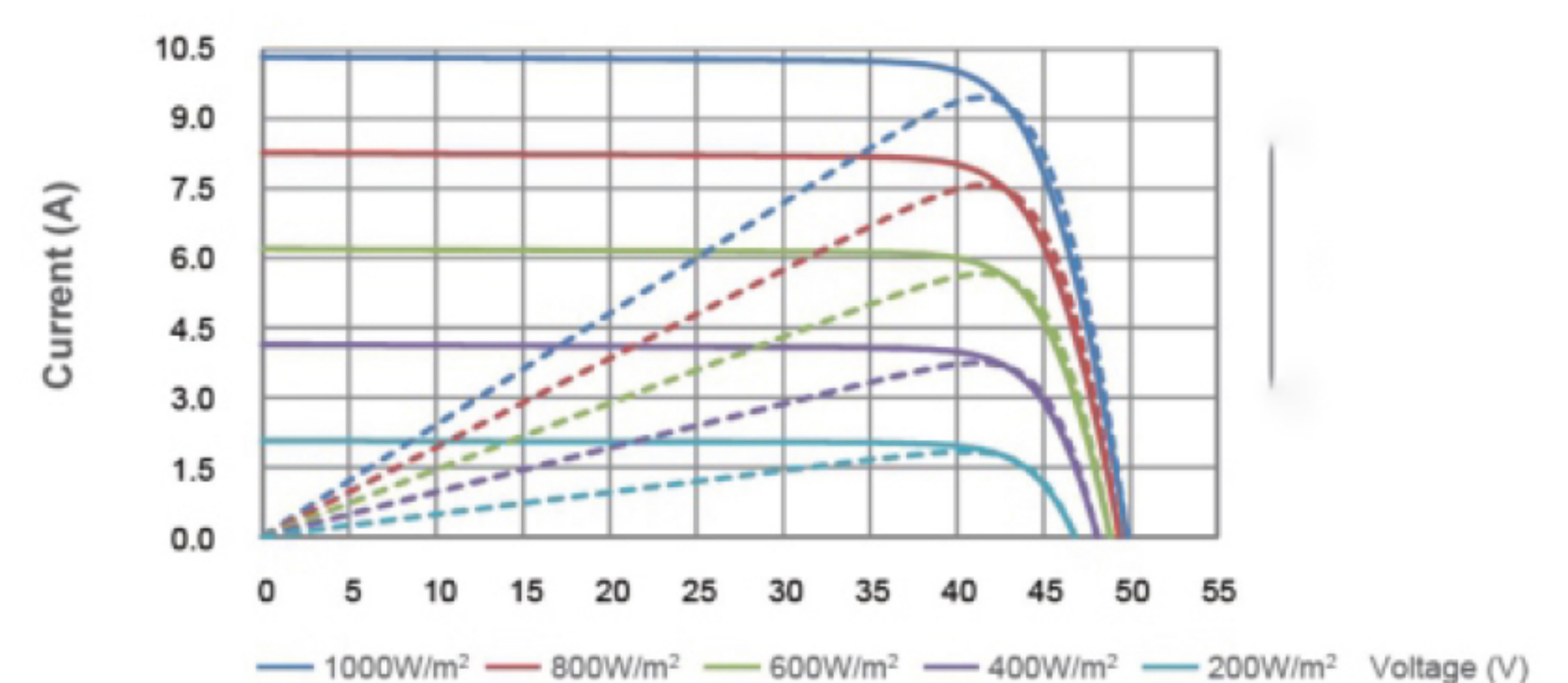
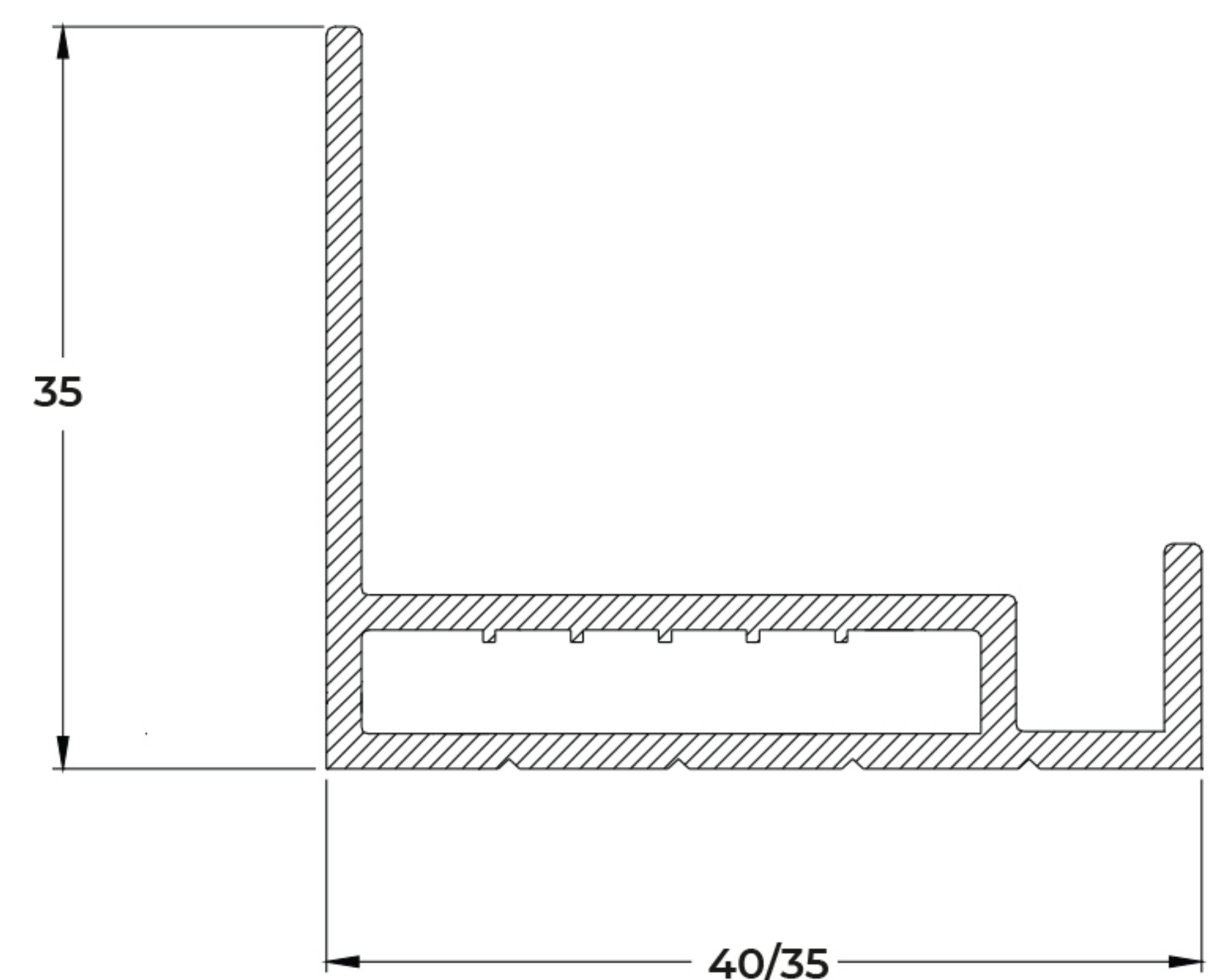
NOTE :  
1. Due to constant product modifications, AATMANIRBHAR reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only  
2. For handling & installation instructions, refer AATMANIRBHAR Installation Manual.  
3. Please read AATMANIRBHAR warranty documents thoroughly.  
4. Please confirm your exact requirements with sales representative while placing your order.  
\*\* Black and Transparent back sheet and black frame module without IEC certification

## PACKAGING SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| Number of modules per pallet  | 30 Nos  |
| Pallet dimensions (L / W / H) | 78in (2000mm) / 43in (1100mm) / 44in (1130mm) |
| Weight Per Pallet             | 1477lb (670kg)                                |
| Module Weight                 | 21.5  |



• ALL DIMENSION IN MM • TOLERANCE ±2MM



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