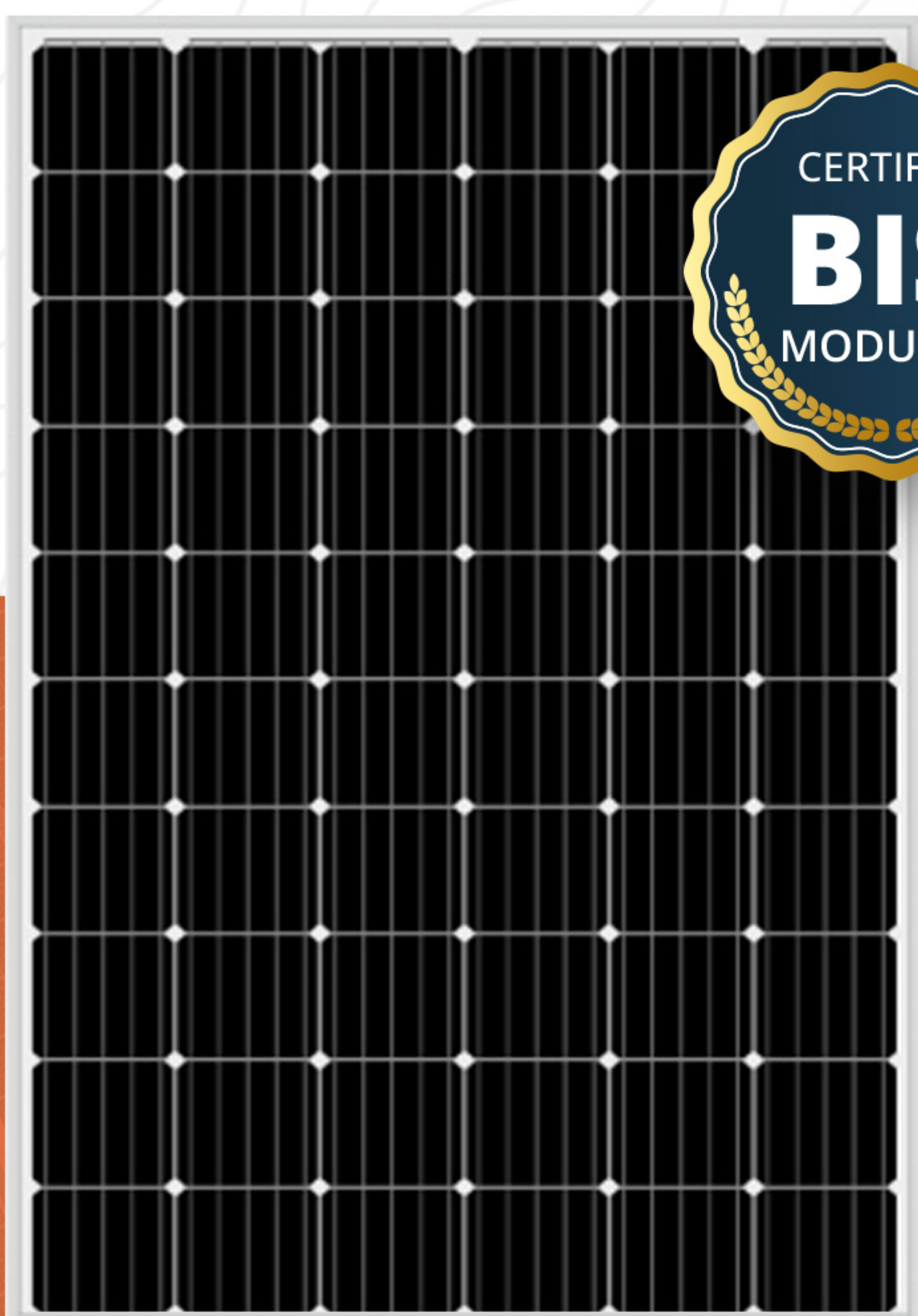




**AATMANIRBHAR**  
ENERGY FOR NATION



**300-330 Watt  
60 Cell Module  
MONO PERC TECHNOLOGY**

**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



**LATEST MONO CRYSTALLINE PERC TECHNOLOGY HIGHER** conversion efficiency up to 19.90%. Lower thermal coefficient for better performance.



**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).



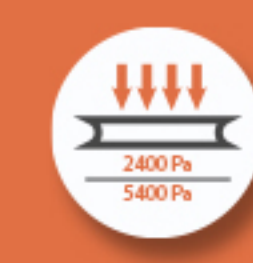
**PID RESISTANCE**  
Excellent Anti PID Performance Guarantee Limited Power Degradation for Mass Production.



**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.



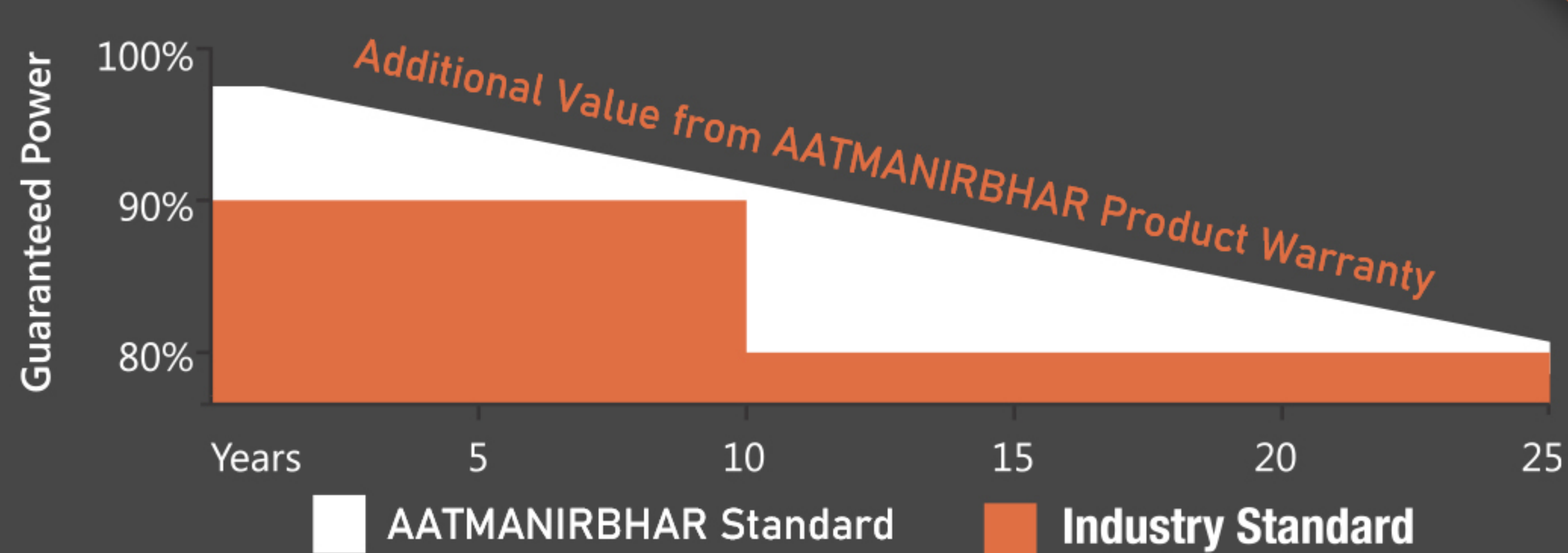
**HIGH STRENGTHENED DESIGN**  
Can withstand maximum 5400 Pa snow load and 2400 Pa Wind load due to super strong frame design.

Excellent Module Efficiency  
Upto 19.90%

Product Warranty 10 Years

Positive Power Tolerance  
Upto 4.99W

### 25 Year Linear Warranty



### Ideal For:



IS 13252



**BIS**

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

R- 72005940

### 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 MP60 (XXX= PMAX)

|                               | 300   | 305   | 310   | 315   | 320   | 325   | 330   |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power Pmax (Wp)       | 300   | 305   | 310   | 315   | 320   | 325   | 330   |
| Maximum Voltage Vmpp (V)      | 32.61 | 32.95 | 33.18 | 33.44 | 33.7  | 33.89 | 34.15 |
| Maximum Current Impp (A)      | 9.2   | 9.268 | 9.345 | 9.42  | 9.5   | 9.59  | 9.67  |
| Open-Circuit Voltage Voc (V)  | 38.34 | 38.68 | 38.92 | 39.2  | 39.44 | 39.7  | 39.83 |
| Short-Circuit Current Isc (A) | 9.78  | 9.86  | 9.94  | 10.02 | 10.1  | 10.18 | 10.6  |
| Module Efficiency (%)         | 18.07 | 18.37 | 18.67 | 18.98 | 19.28 | 19.58 | 19.88 |

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)

|                               | 221.8 | 225.5 | 229.2 | 232.8 | 236.5 | 240.2 | 243.90 |
|-------------------------------|-------|-------|-------|-------|-------|-------|--------|
| Maximum Power Pmax (Wp)       | 221.8 | 225.5 | 229.2 | 232.8 | 236.5 | 240.2 | 243.90 |
| Maximum Voltage Vmpp (V)      | 30.26 | 30.58 | 30.79 | 31.03 | 31.27 | 31.45 | 31.69  |
| Maximum Current Impp (A)      | 7.33  | 7.37  | 7.44  | 7.5   | 7.56  | 7.64  | 7.70   |
| Open-Circuit Voltage Voc (V)  | 34.87 | 35.18 | 35.40 | 35.65 | 35.87 | 36.10 | 36.22  |
| Short-Circuit Current Isc (A) | 7.93  | 8     | 8.06  | 8.13  | 8.19  | 8.26  | 8.60   |

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      |

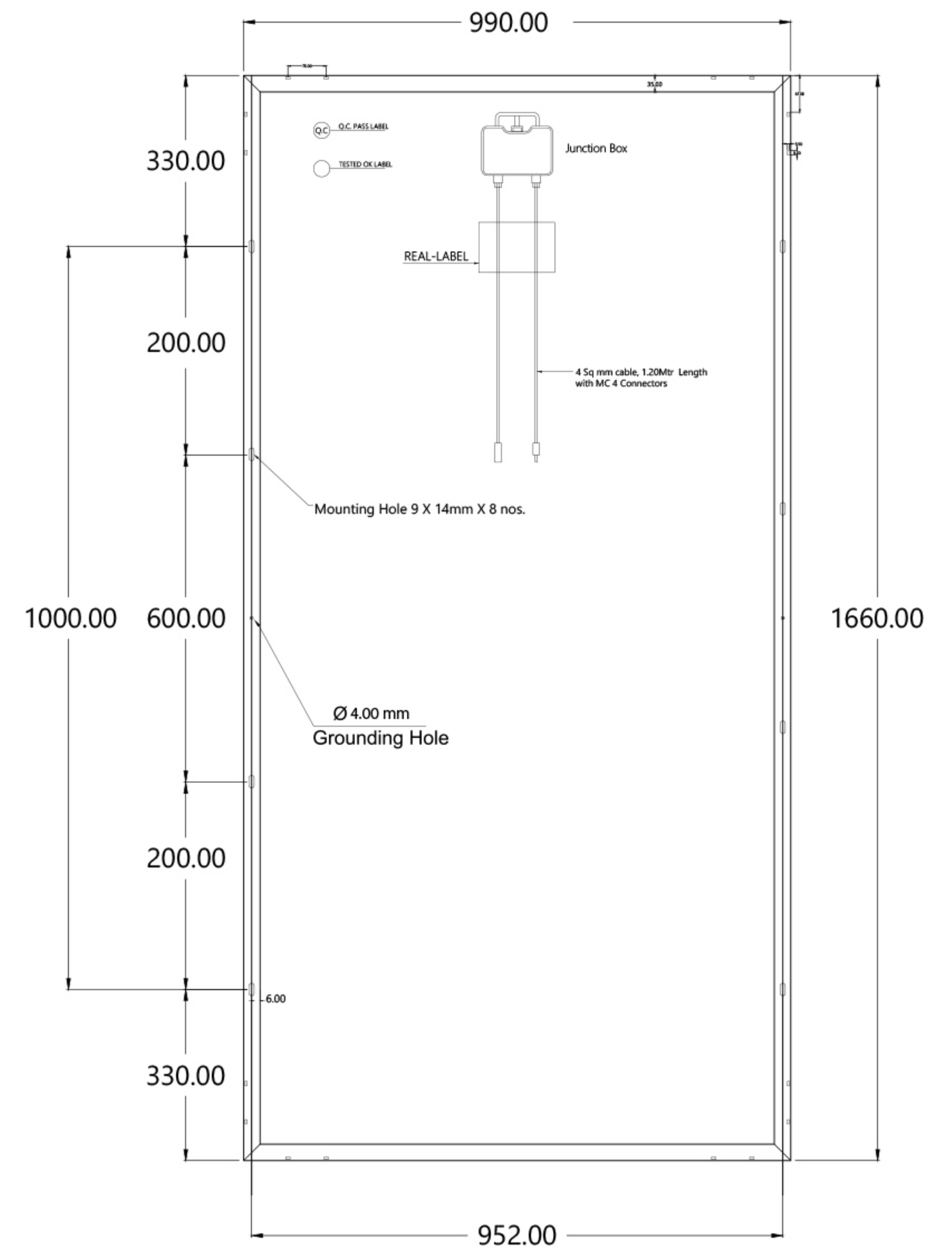
## MECHANICAL DATA

|                        |   |
|------------------------|---|
| Cell Type              | Mono PERC Crystalline 6.25 Inch                             |
| Cell Arrangement       | 60 (6 X 10)   |
| Dimensions (L / W / H) | 65.35in (1660mm) / 38.97in (990mm) / 1.37in (35mm)          |
| Weight                 | 18.7kg (41.22 lb)   |
| Superstrate ( Glass )  | 3.2 MM -High transmission Low-Iron Tempered Glass AR Coated |
| Frame Material         | Silver Anodized Alluminum Frame With Twin Wall Profile      |
| Cell Encapsulant       | EVA (Ethylene vinyl acetate) - FC/UFC                       |
| Back Sheet             | Composite Film - White (Black and Transparent Optional)**   |
| Junction Box           | IP 68   |
| Cable                  | 1.2 mtr   |
| Connectors             | MC4 Comparable  |
| By- Pass Diodes        | 3 Pcs   |

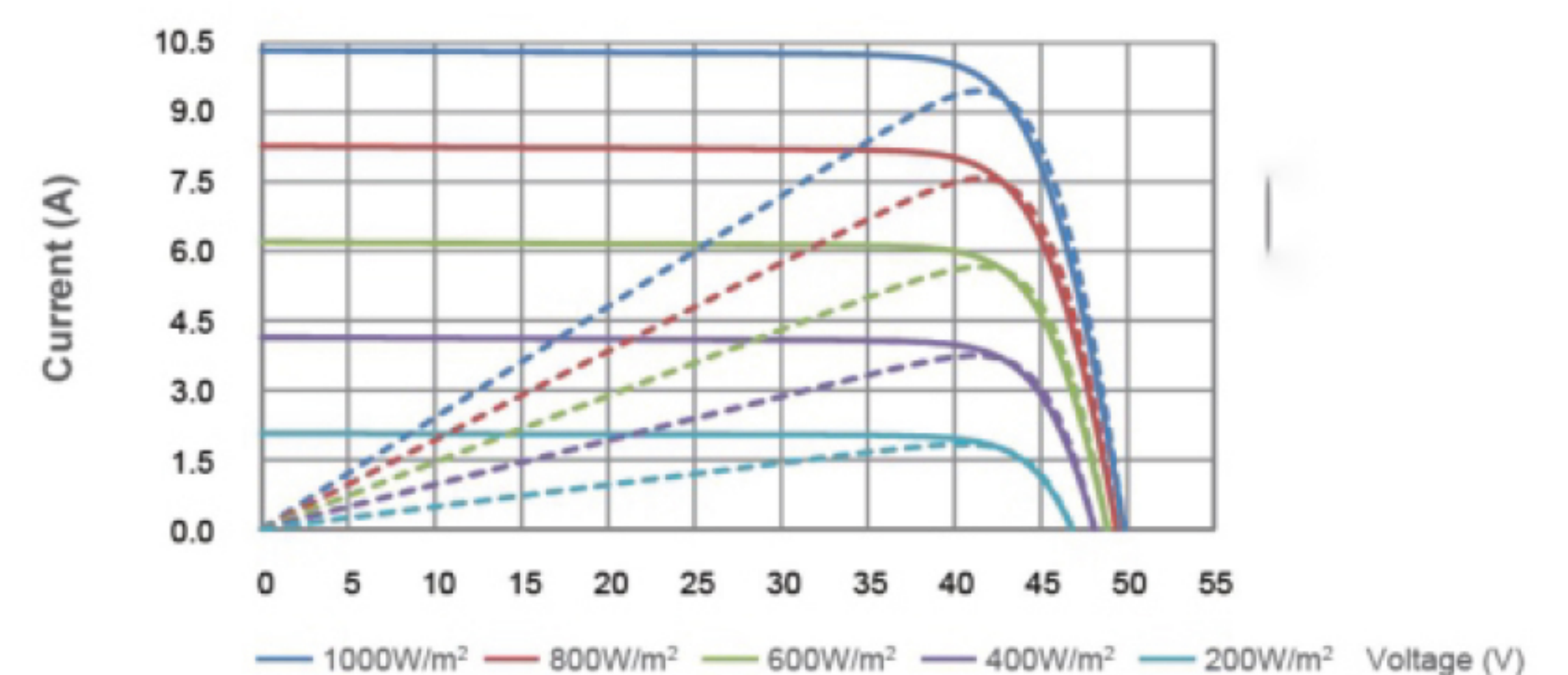
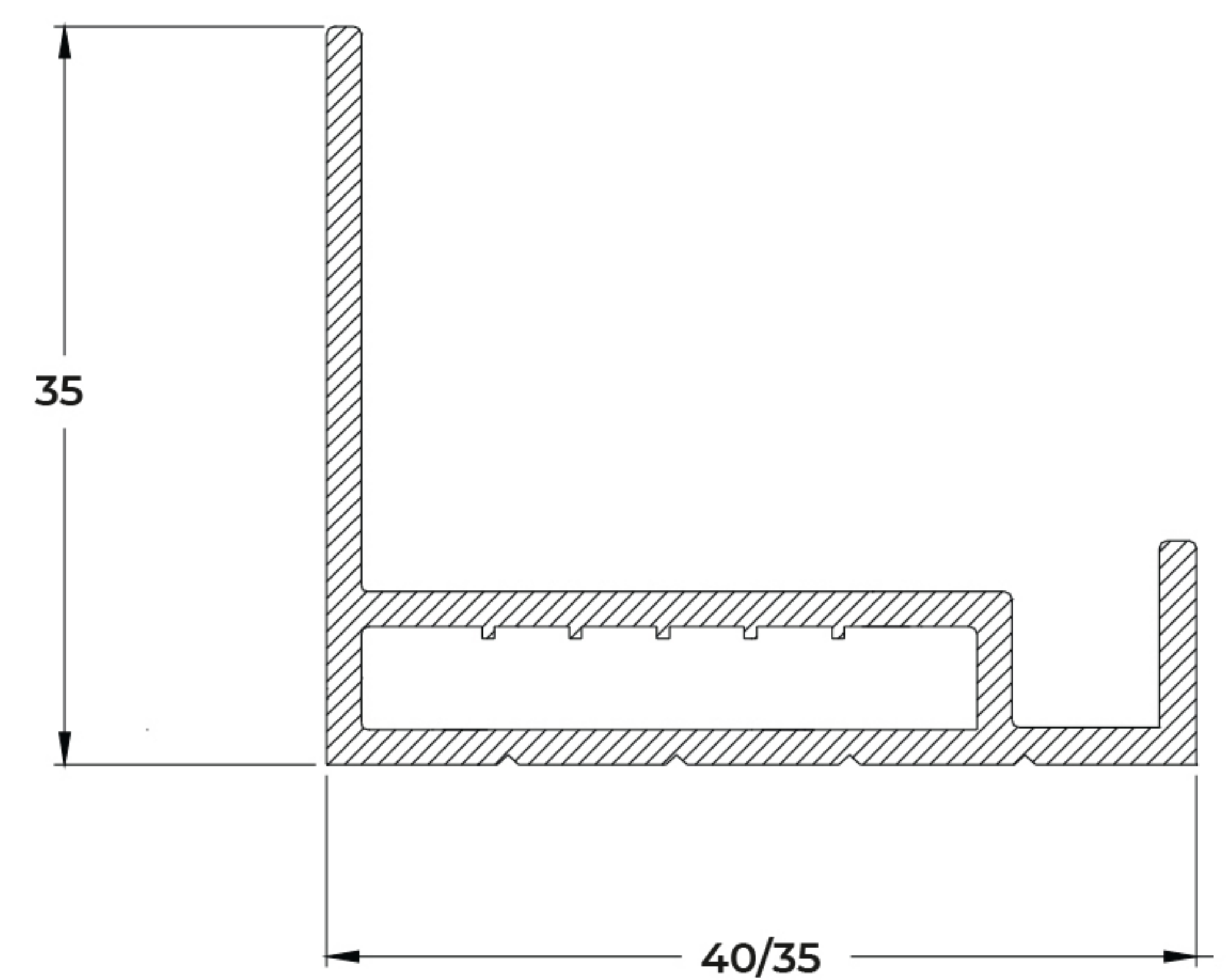
- NOTE :
- Due to constant product modifications, AATMANIRBHAR reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only
  - For handling & installation instructions, refer AATMANIRBHAR Installation Manual.
  - Please read AATMANIRBHAR warranty documents thoroughly.
  - 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  | 30Nos   |
| Pallet dimensions (L / W / H) | 66in (1675mm) / 43in (1100mm) / 44in (1130mm) |
| Weight Per Pallet             | 1290lb (585kg)                                |
| Module Weight                 | 18.7  |



• ALL DIMENSION IN MM • TOLERANCE ±2MM



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