



AATMANIRBHAR
ENERGY FOR NATION



280-305 Watt 66 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

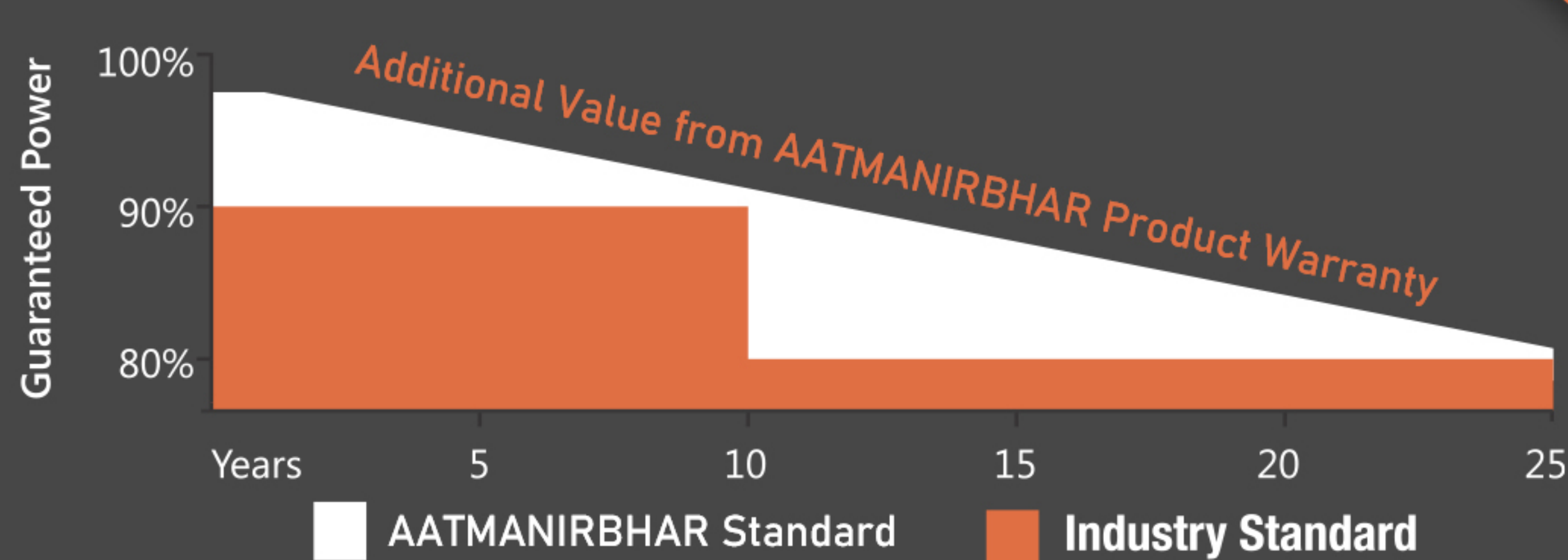
Can withstand maximum 5400 Pa snow load and 2400 Pa Wind load due to super strong frame design.

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 , 2nd 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 XXXP66 (XXX= PMAX)					
Maximum Power Pmax (Wp)	280	285	290	295	300	305
Maximum Voltage Vmpp (V)	33.58	33.65	33.84	33.95	34.1	34.27
Maximum Current Imp (A)	8.34	8.47	8.57	8.69	8.8	8.9
Open-Circuit Voltage Voc (V)	40.41	40.56	40.7	40.8	41	41.13
Short-Circuit Current Isc (A)	8.64	8.76	8.88	9	9.12	9.24
Module Efficiency (%)	15.67	15.95	16.23	16.51	16.79	17.07

STC: 1000W/m² irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 3.0% at 200W/m² according to EN 60904-1.

Electrical Parameters at Nominal Operating Cell Temperature (NOCT)

Maximum Power Pmax (Wp)	204.73	208.7	212.3	216	219.16	223.3
Maximum Voltage Vmpp (V)	28.65	31.36	31.53	31.63	31.77	31.93
Maximum Current Imp (A)	5.72	6.65	6.73	6.83	6.91	6.99
Open-Circuit Voltage Voc (V)	33.86	37.04	37.17	37.26	37.44	37.56
Short-Circuit Current Isc (A)	6.98	7.08	7.18	7.27	7.37	7.47

NOCT: open-circuit module operation temperature at 800W/m² 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	-0.424
Temperature Coefficient of Isc	β	%/°C	0.05
Temperature Coefficient of Pma	α	%/°C	-0.341

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

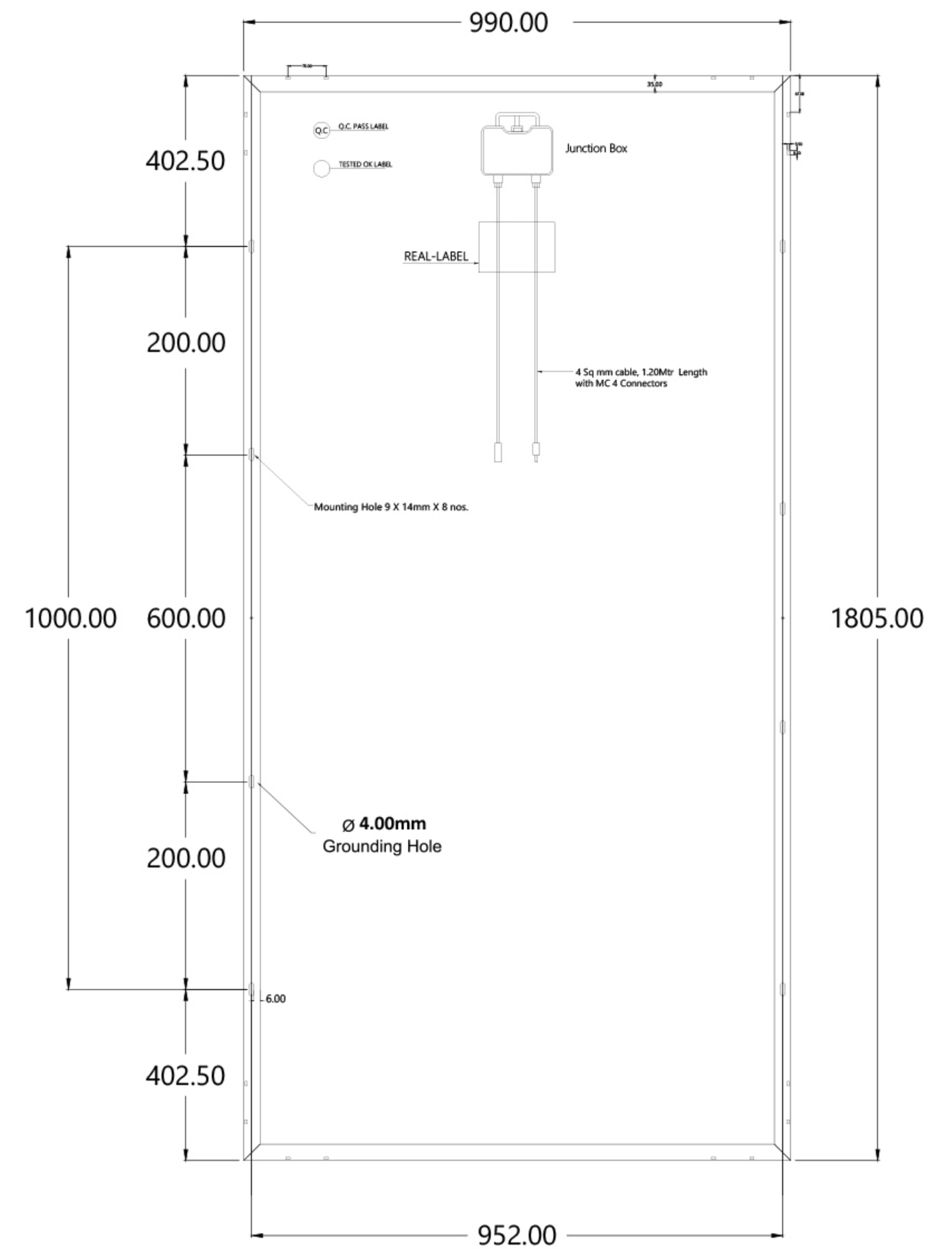
MECHANICAL DATA

Cell Type	Poly Crystalline 6.25 Inch
Cell Arrangement	66 (6 X 11)
Dimensions (L / W / H)	71.06in (1805mm) / 38.97in (990mm) / 1.37in (35mm)
Weight	19.5kg (42.99 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	IP68
Cable	1.2 mtr
Connectors	MC4 Comparable
By- Pass Diodes	3 Pcs

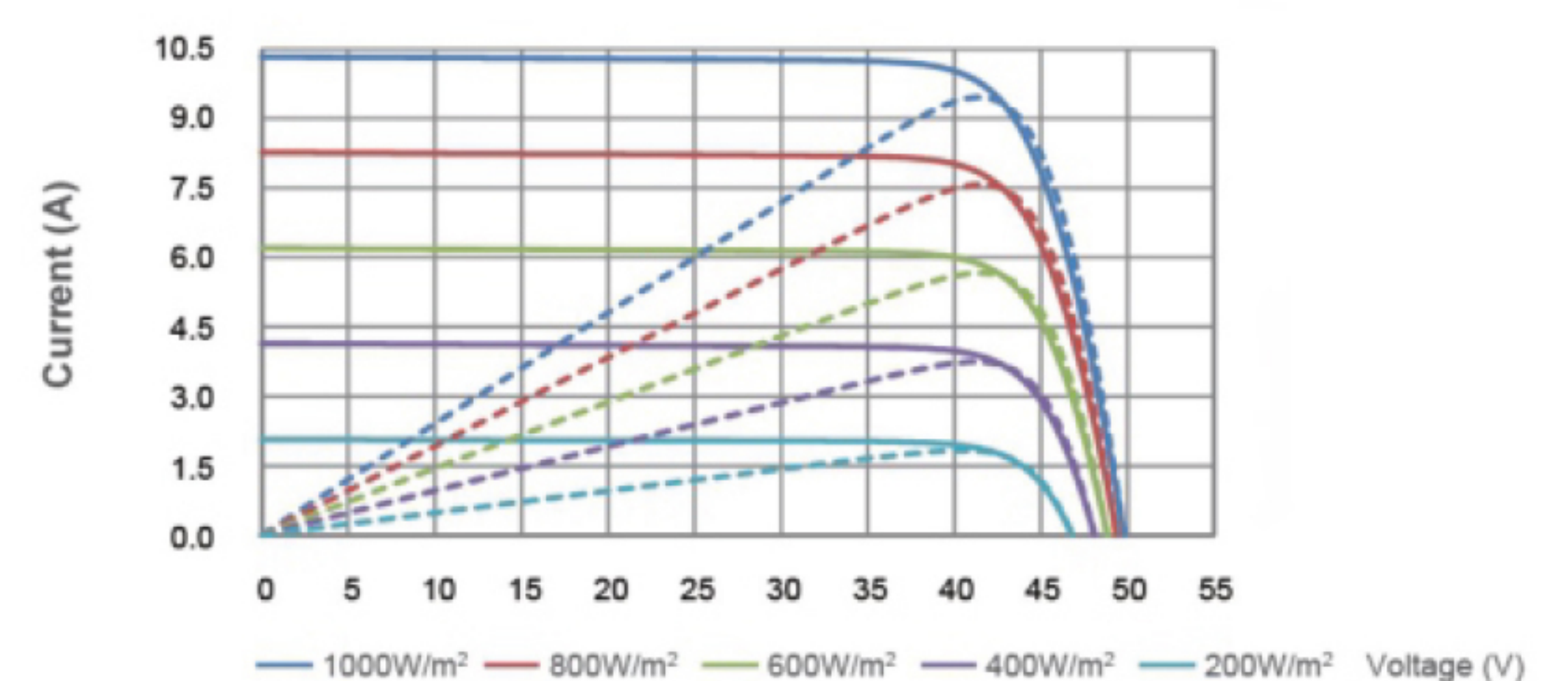
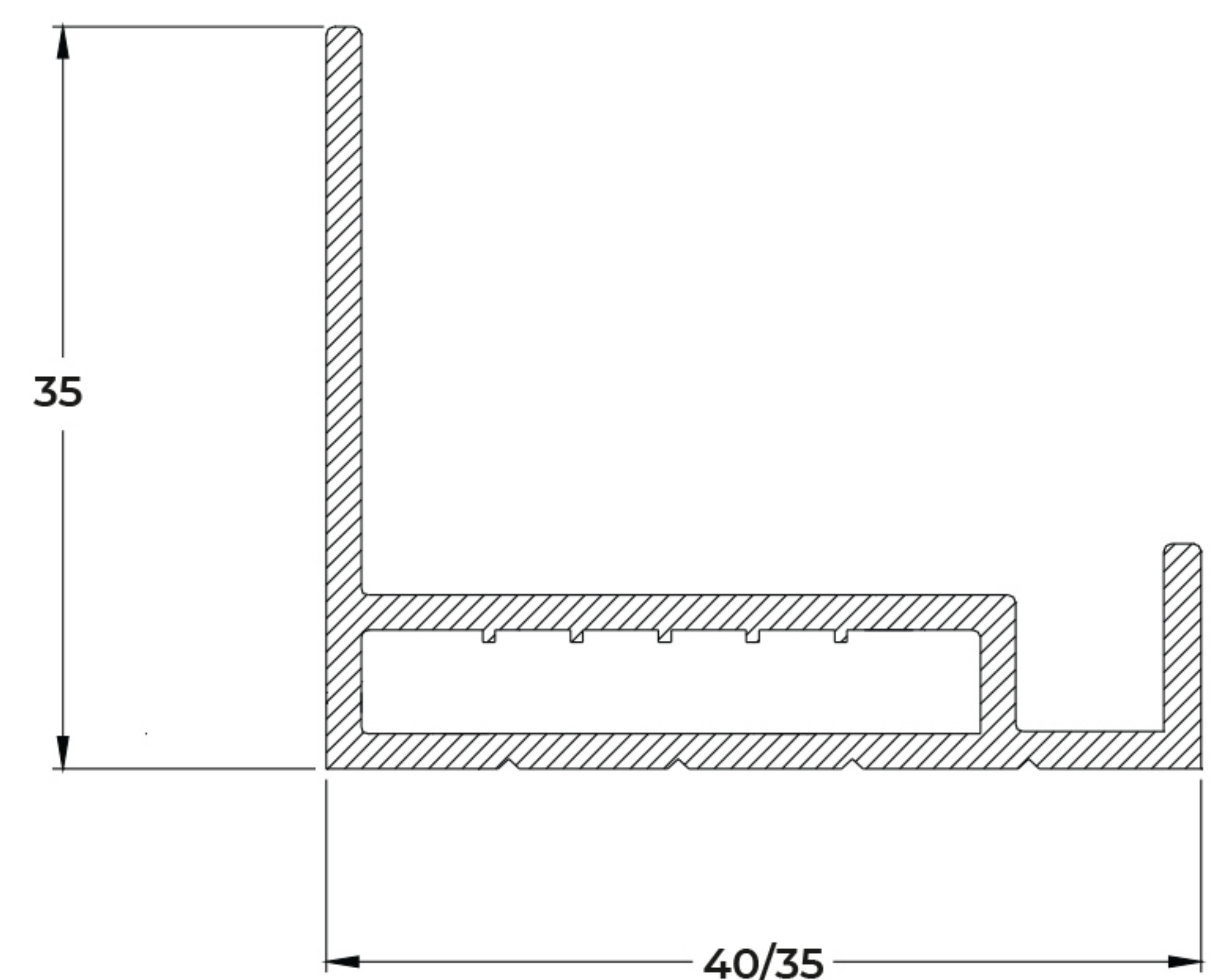
NOTE :
1. Due to constant product modifications, AATMANIRBHAR reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only
2. For handling & installation instructions, refer AATMANIRBHAR Installation Manual.
3. Please read AATMANIRBHAR 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)	72in (1820mm) / 43in (1100mm) / 44in (1130mm)
Weight Per Pallet	1344lb (610kg)
Module Weight	19.5kg



• ALL DIMENSION IN MM • TOLERANCE ±2MM



+91 98255 56688

Sales@aatmanirbharsolar.com

www.aatmanirbharsolar.com