



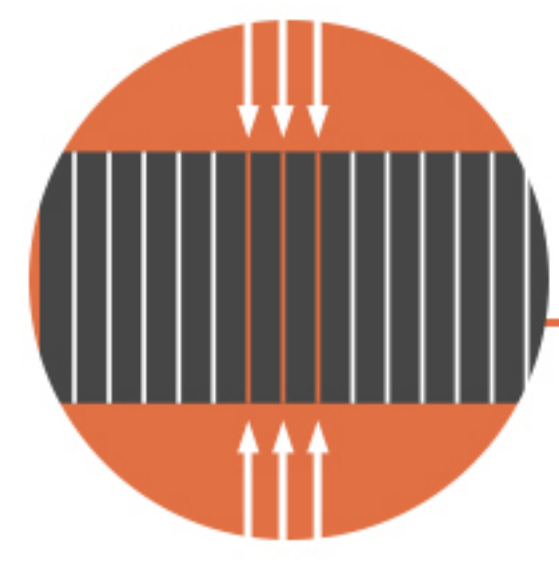
**AATMANIRBHAR**  
ENERGY FOR NATION

# Uranus Series

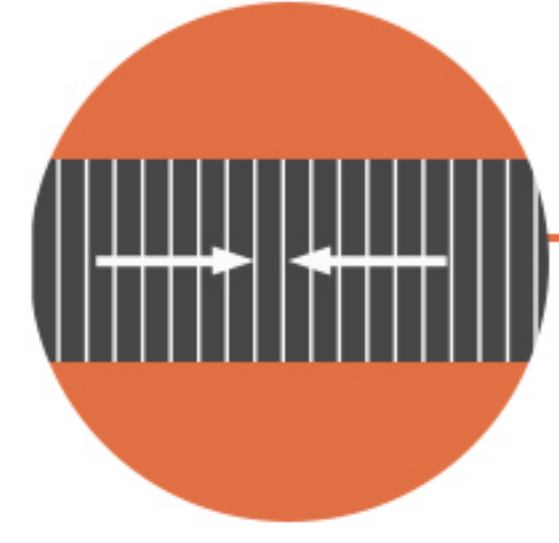
0~+5W

# 540~560 W

Half-Cell High Efficiency PV Module



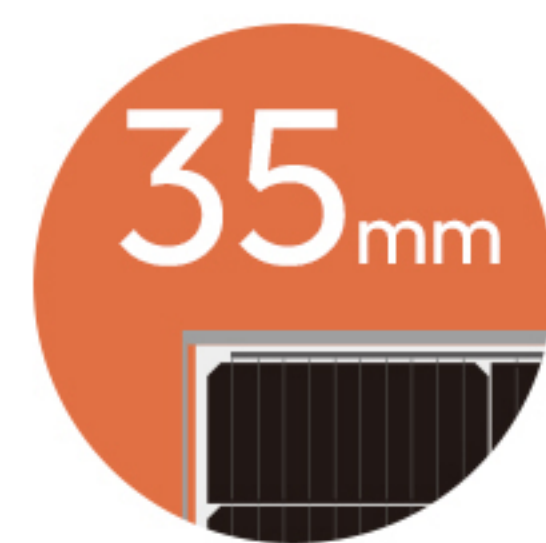
The power of half-cell module increases, & the hot spot temperature reduces because of lower working current



Using M6 standard wafer part of assembly line upgraded to 10BB, further improve power



Unique parallel connection design, more energy yield in case of shading



35mm frame,  
Front/back side maximum static Loading: 5400 Pa/ 2400 Pa



1<sup>st</sup> Year Degradation



Anti LID



Anti PID

## KEY FEATURES



### HIGH CUSTOMER VALUE

- Lower LCOE reduced BOS cost shorter payback time.
- High return on investments



### 10 BUSBAR TECHNOLOGY

High Power Collection Density Improves Power Generation



### STABLE GENERATION PERFORMANCE

Guaranteed 0~+5W positive tolerance & Slower Power attenuation: First year ≤2%, 0.55% Per Year 2-27



### HIGHER POWER GAINS & LOWER LOSSES

Excellent Low Irradiance Performance & Low Shadow Loss



### PROCESS OPTIMIZED & UPGRADED

Lower Risk of Hot Spot & Stronger Anti- PID ability



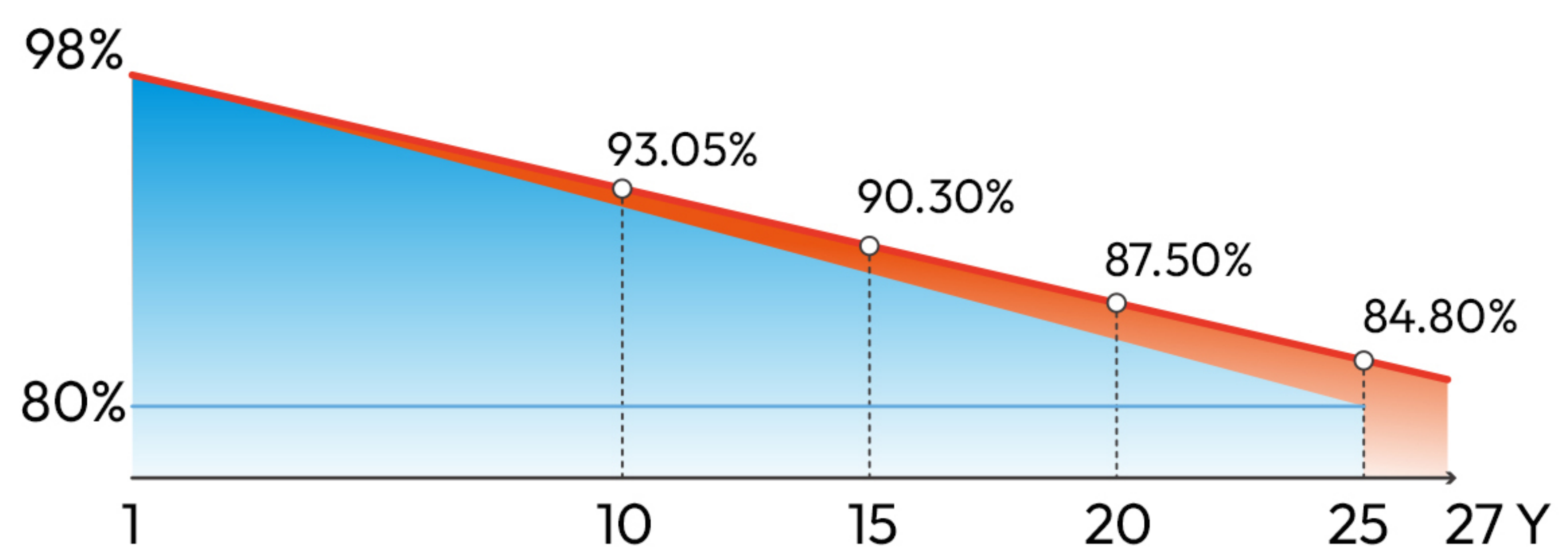
### STRONG ENVIRONMENTAL ADAPTABILITY & GREAT DURABILITY

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

## Quality Guarantee

12- Years material & technology warranty

27- Years linear power output warranty



▲ Aatmanirbhar solar Linear power Output Guarantee

▲ Standard Linear power Output Guarantee



- Ground Power plant
- C&I rooftop

**21.5%**

Max Module

**0~+5W**

Power Tolerance

**<2%**

First Year Power Degradation

**0.55%**

Year 2-27 Power Degradation

**HALF CELL**

Lower Operating Temperature

### Reg. Office :

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

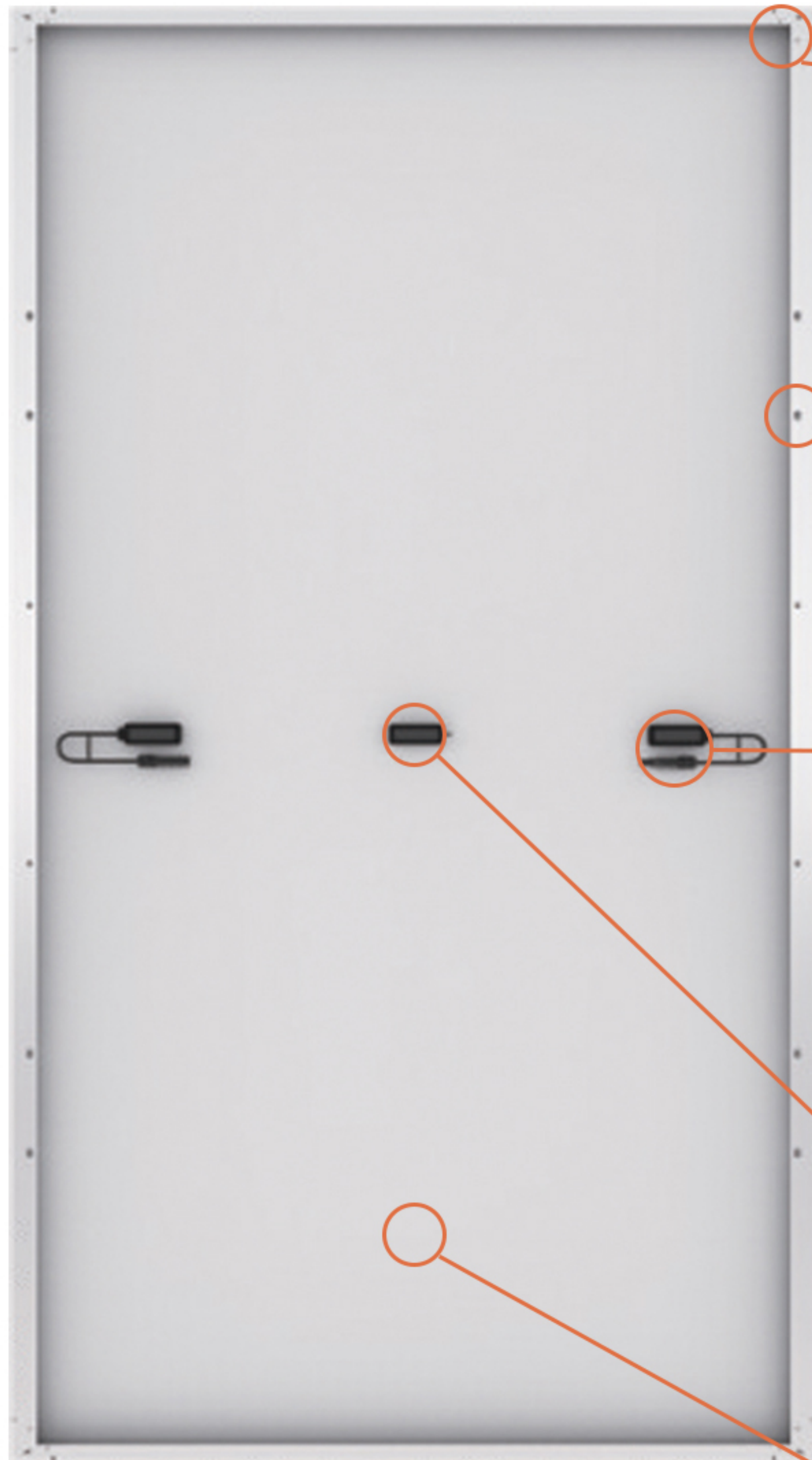
### Factory Address :

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





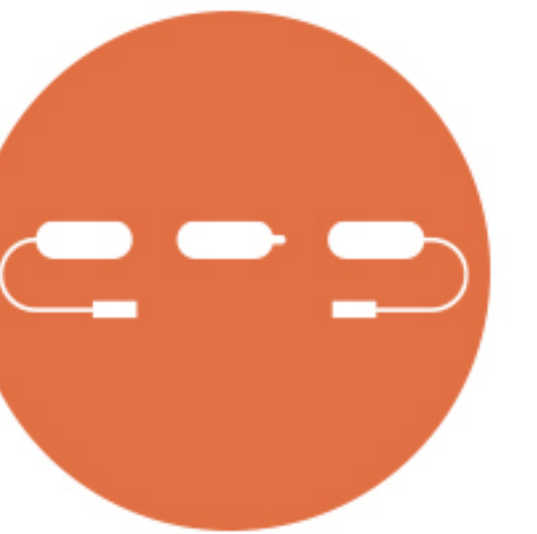
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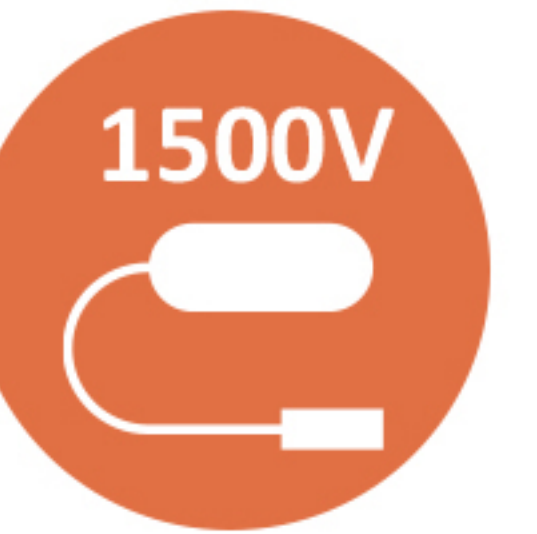
Two grounding holes and one leakage hole at each corner



12 mounting holes, adaptable to various mounting approaches



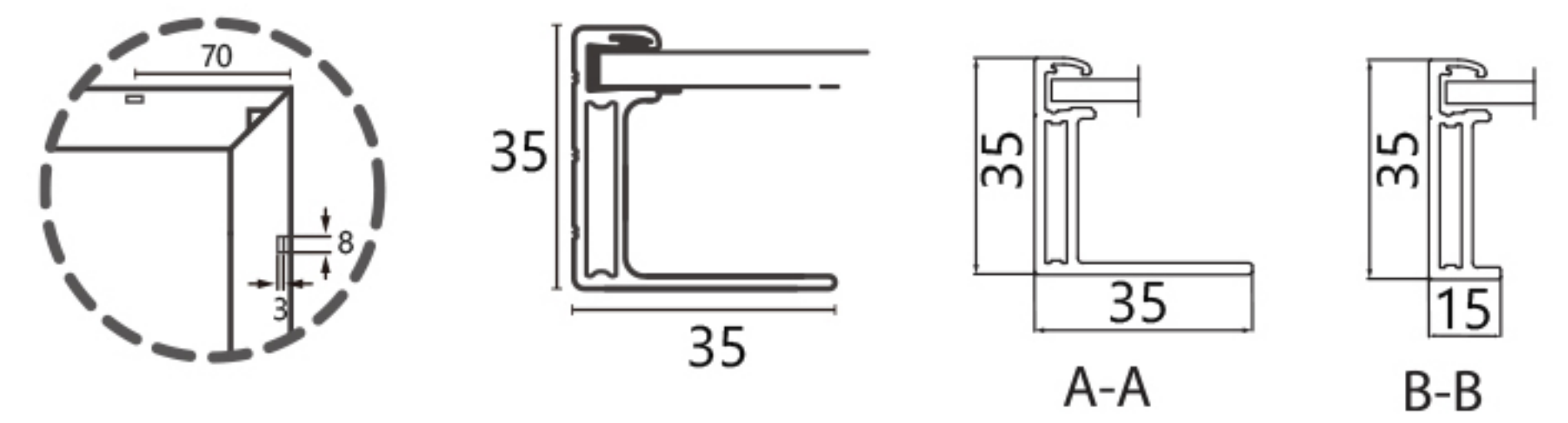
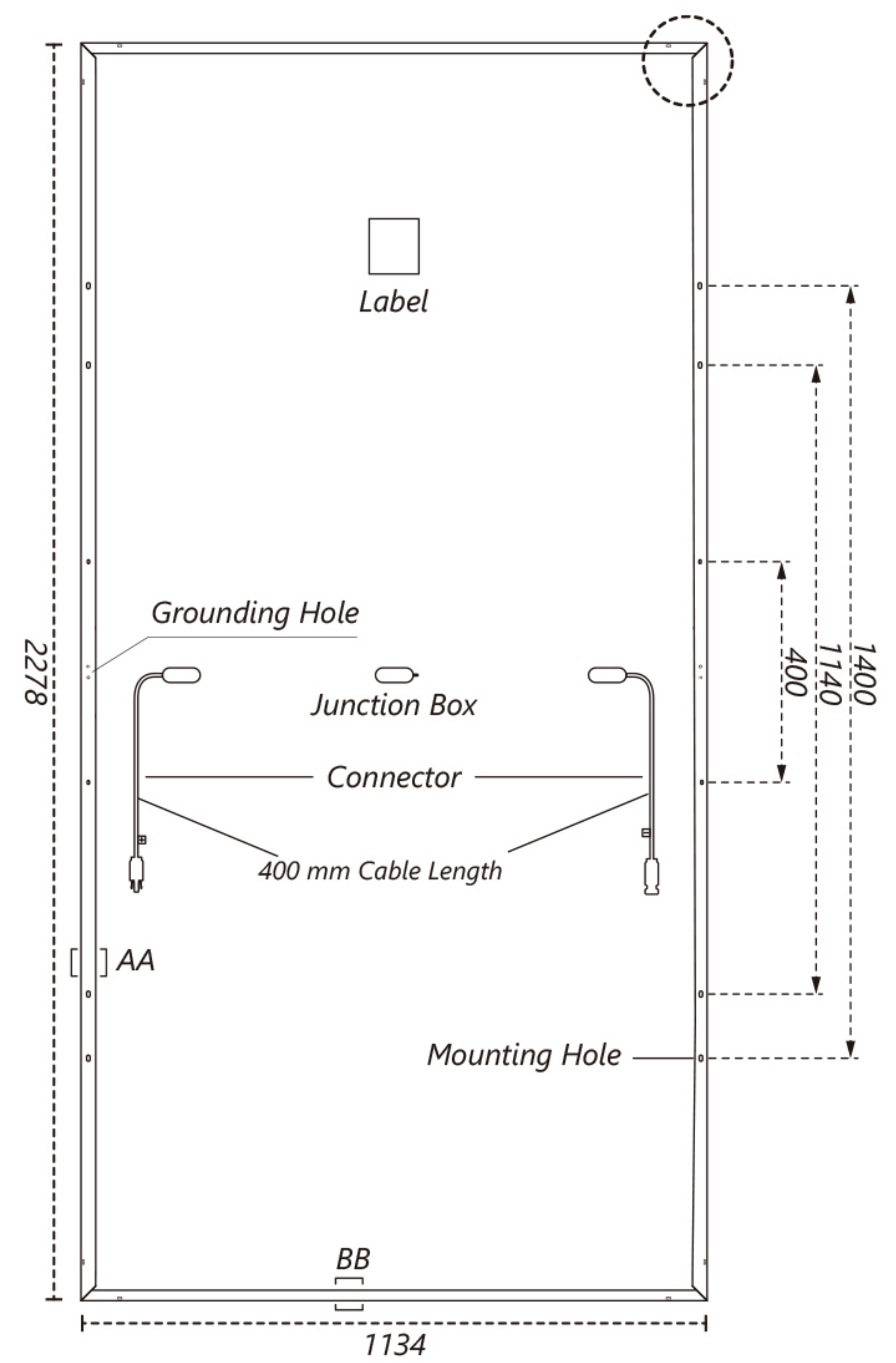
Split junction box, Cable Length 400mm (can be Customized)



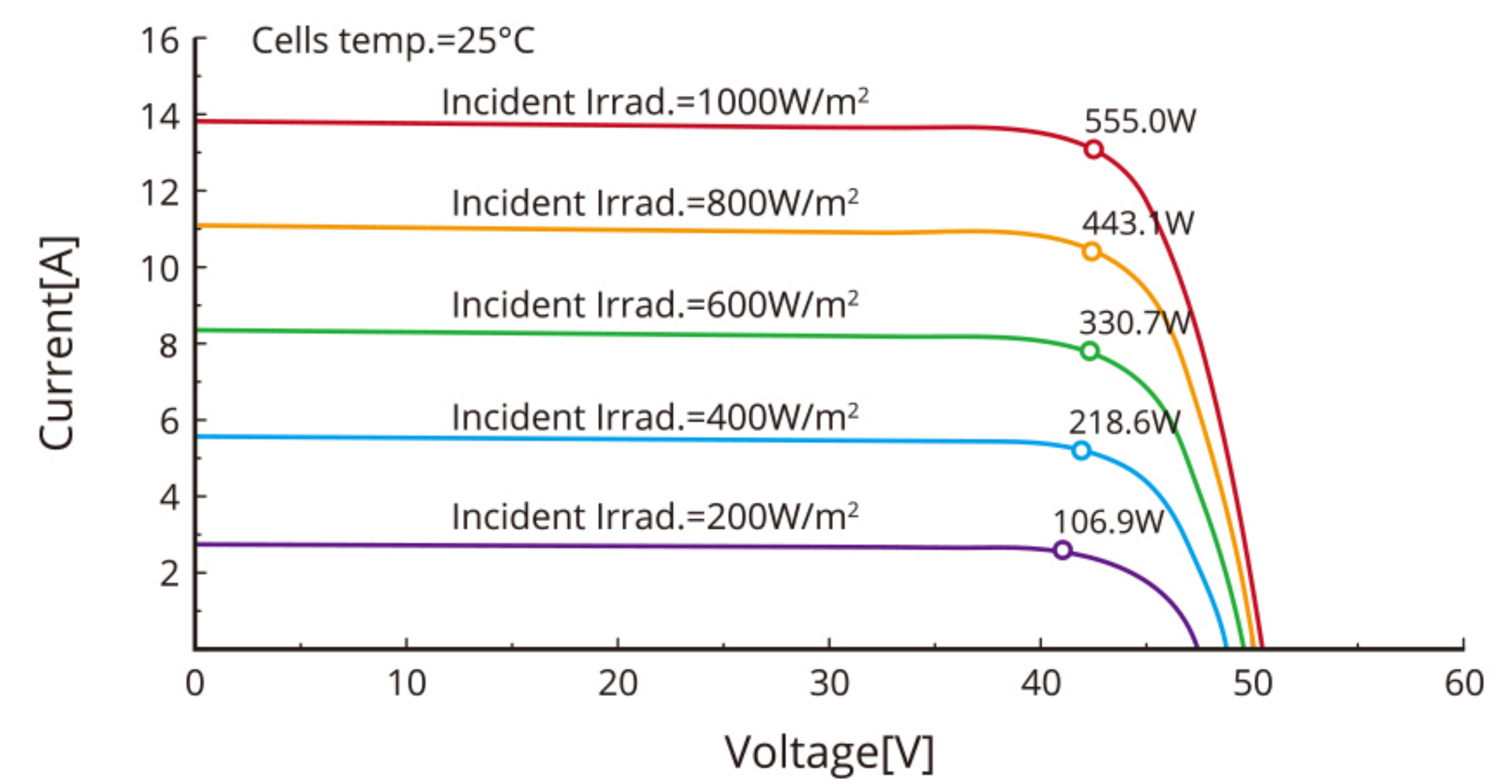
Backsheet and junction box supporting 1500V system



Backsheet with Fluoride on both sides, resistant to ultraviolet radiation



Current-Voltage Curve



## ELECTRICAL PERFORMANCE

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

Module Type	ASPL XXX MP144 (XXX= PMAX)				
Peak Power Watts (Pmax)	540	545	550	555	560
Maximum Power Voltage ( Vmp)	42	42.2	42.4	42.6	42.8
Maximum Power Current ( Imp)	12.86	12.91	12.97	13.03	13.08
Open-Circuit Voltage (Voc)	49.8	50	50.2	50.4	50.6
Short-Circuit Current (ISC) (A)	13.66	13.72	13.78	13.84	13.9
Module Efficiency STC (%)	20.9	21.1	21.3	21.5	21.7
Temperature Coefficient of Pmax (γ)	-0.35%/°C				
Temperature Coefficient of Voc (β)	-0.31%/°C				
Temperature Coefficient of Isc (α)	0.05%/°C				

STC: 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM 1.5g spectrum

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

Power output	402	405	409	413	417
Maximum Power Voltage ( Vmp)	39.4	39.6	39.8	40	40.1
Maximum Power Current ( Imp)	10.2	10.24	10.29	10.33	10.38
Open-Circuit Voltage (Voc)	46.7	46.9	47.1	47.3	47.5
Short-Circuit Current (ISC) (A)	11.04	11.09	11.13	11.18	11.23

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

## MECHANICAL DATA

Cell Orientation	144(6 x 24)
Junction Box	IP68, Three Diodes
Output Cable	4.0 mm <sup>2</sup> , 300/ 400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame Material	Anodized aluminium alloy frame
Weight	29 kg
Dimension	2278 x 1134 x 35 mm
Packing	31pcs per pallet/155pcs 20GP/620pcs per 40 HC

## OPERATING CONDITIONS

Maximum System Voltage	1500Vdc
Maximum Series Fuse Rating	25A
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
Application Level	Class A

### CAUTION:

1. Read safety and installation instructions before using the product.
2. Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly & are not guaranteed.

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