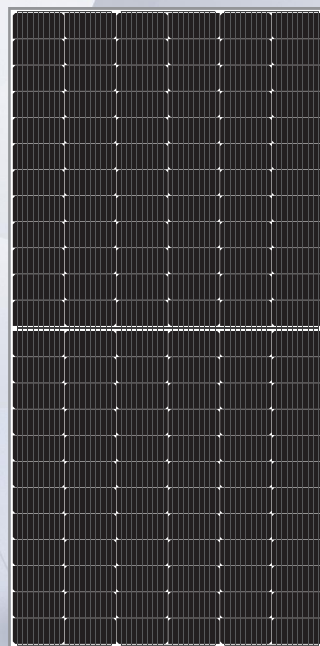


Mono Half Cut

Monofacial 540~555W

SN(540~555W)-144M **9BB** >

Mono MBB per large size half cut module



KEY FEATURES



M10 wafer MBB half cut technology

Large-size cells increase the effective generation area, less current transfer distance & resistance, improve generation efficiency



High efficiency cells & high module yield guarantee

Adopt latest A grade high efficiency MBB cells, increase power generation & the rate of return on investment



Special cells strings array layout

Effectively reduce the working temperature & current, improve low-light generation and shadow performance



Optimized module size & weight

Excellent industry size compatibility, suitable for ultra power plant & commercial projects, effectively reducing LCOE & transportation costs



Stable generation capacity and power loss guarantee

0~+5W power output guarantee, 1st year power degradation $\leq 2\%$, 2nd year to 25th year power degradation $\leq 0.6\%$



Excellent environmental adaptability and anti-aging ability

Excellent anti-PID, sand-dust, salt-mist & ammonia resistance ability; 2400Pa wind load & 5400Pa snow load approved

CERTIFICATION

IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO

ISO 9001

2015 Quality Management System

ISO 14001

2015 Environmental Management System

ISO45001

2018 Occupational Health and Safety Management System



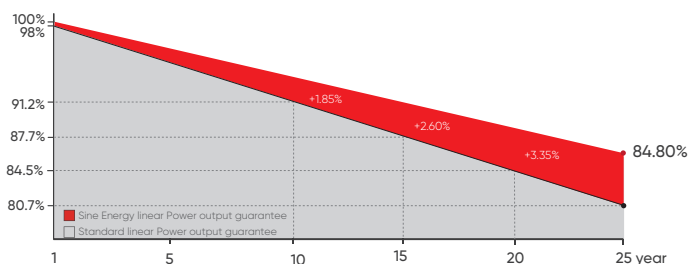
INDUSTRY LEADING WARRANTY

12 years

Guarantee on product material and workmanship

25 years

Linear power output warranty



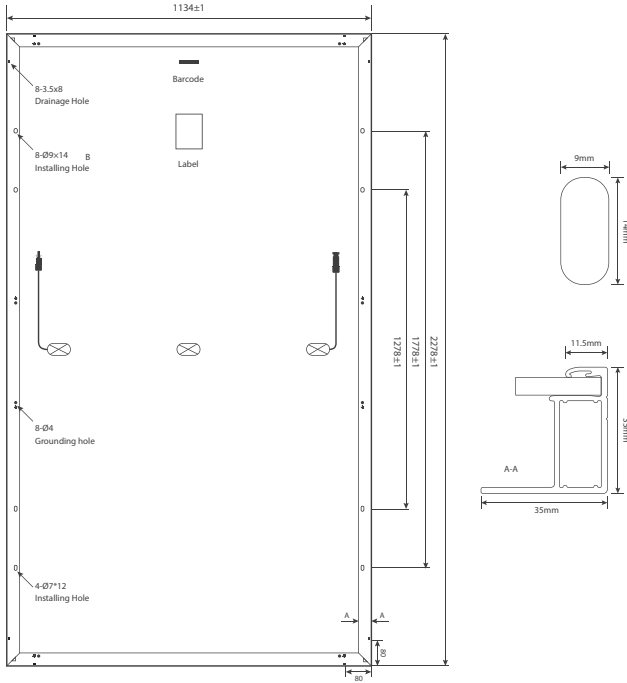
SN(540~555W)-144M

Weight
26.5kg

Number of Cells
144pcs(24×6)

Module Size
2278×1134×35mm

Packing
31pcs/pallet, 620pcs/40HQ



MECHANICAL SPECIFICATIONS

| | |
|-----------------|--|
| Solar Cell Type | 182×91mm |
| Glass | 3.2mm tempered, high transmission ART coating |
| Back Sheet | White KPF |
| Frame | Silver Anodized Aluminium Alloy |
| Junction Box | IP68 |
| No. of Diodes | 3pcs |
| Output Cable | 4.0mm ² 400/400mm (custmized available) |
| Connector | MC4 Compatible (MC4 Original optional) |
| Wind/Snow Load | 2400pa/5400pa |

TEMPERATURE COEFFICIENT

| | |
|-----------------------------------|---------------|
| Nominal Operating Cell Temp(NOCT) | 44±2 C |
| Temperature Coefficient of ISC | 0.060% C |
| Temperature Coefficient of VOC | -0.30% C |
| Temperature Coefficient of Pmax | -0.39% C |
| Operational Temperature | -40~85 C |
| Maximum System Voltage | 1500V DC(IEC) |
| Maximum Series Fuse Rating | 25A |

ELECTRICAL SPECIFICATION (STC)

| | 540W | 545W | 550W | 555W |
|-------------------------------|--------|--------|--------|--------|
| Maximum Power -Pmax(W) | 540W | 545W | 550W | 555W |
| Maximum Power Voltage-Vmp(V) | 41.03V | 41.18V | 41.33V | 41.48V |
| Maximum Power Current-Imp(A) | 13.17A | 13.23A | 13.31A | 13.38A |
| Open Circuit Voltage -Voc(V) | 49.53V | 49.68V | 49.83V | 49.98V |
| Short Circuit Current-Isc(A) | 13.63A | 13.71A | 13.79A | 13.87A |
| Module Efficiency(STC) -ηm(%) | 20.90% | 21.09% | 21.29% | 21.48% |
| Power output tolerance(W) | 0~+5W | | | |

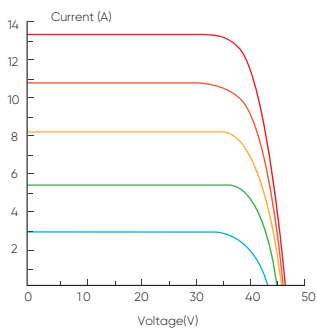
STC:Irradiance:1000W/m², Module Temperature:25°C,Air Mass:1.5

Electrical Specification (NOCT)

| | 404W | 408W | 391W | 416W |
|------------------------------|--------|--------|--------|--------|
| Maximum Power -Pmax(W) | 404W | 408W | 391W | 416W |
| Maximum Power Voltage-Vmp(V) | 37.79V | 37.94V | 38.09V | 38.24V |
| Maximum Power Current-Imp(A) | 10.70A | 10.77A | 10.84A | 10.91A |
| Open Circuit Voltage -Voc(V) | 45.56V | 45.71V | 45.86V | 46.01V |
| Short Circuit Current-Isc(A) | 11.37A | 11.44A | 11.52A | 11.59A |

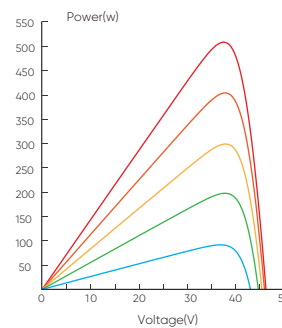
NOCT:Irradiance:800W/m², Ambient Temperature:20°C,Air Mass:1.5,Wind Speed:1m/s

I-V Curve



Current-Voltage Curve(545W)

- 1000W/m²
- 800W/m²
- 600W/m²
- 400W/m²
- 200W/m²



Power-Voltage Curve(545W)

- 1000W/m²
- 800W/m²
- 600W/m²
- 400W/m²
- 200W/m²