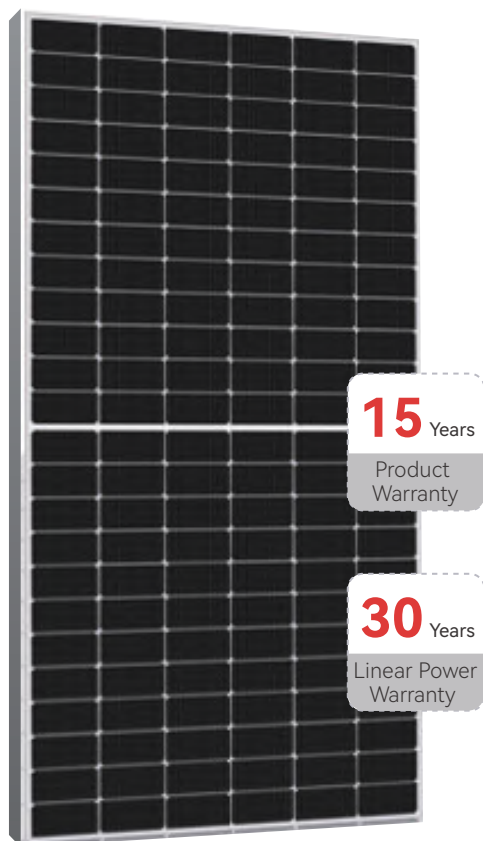




High Efficiency **HJT** Module

AS580-600M10-144 Bifacial

580W | 585W | 590W | 595W | 600W

600W

Maximum
Power Output

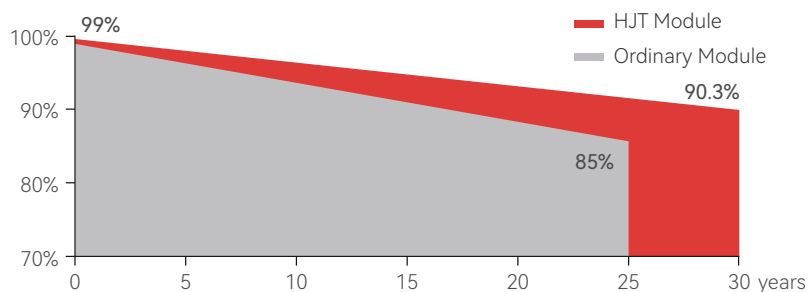
23.23%

Maximum
Efficiency

90%+

Bifaciality

Quality Assurance



Product Features



SMBB Half Cell

Multi-busbar half-cell design, higher module efficiency and power output



G10 Cell / Module

G10 size wafer, applicable to multiple scenarios



High Reliability

Certified mechanical performance up to 5400 Pa positive load and 2400 Pa negative load, with better protection against harsh weather



High Energy Yield

Maximum Module Efficiency up to 23.23% achieved by mature mass production HJT cell technology



Better Warranty

Extremely low LID/PID in longer service life, with 9.7% power degradation over 30 years



Higher Performance

Excellent weak light performance and lower temperature coefficient, resulting in better energy yield in all-weather

Certificates



Electrical Data(STC)

Model	AS580M10-144	AS585M10-144	AS590M10-144	AS595M10-144	AS600M10-144
Pmax(Wp)	580	585	590	595	600
Voc(V)	53.95	54.14	54.33	54.52	54.71
Isc(A)	13.36	13.41	13.46	13.51	13.56
Vmpp(V)	45.02	45.23	45.44	45.65	45.86
Impp(A)	12.90	12.95	13.00	13.05	13.10
Efficiency	22.45%	22.65%	22.84%	23.03%	23.23%

STC: AM1.5 Irradiance: 1000W/m², Temperature=25°C

Electrical Characteristics(BSTC)

Model	AS580M10-144	AS585M10-144	AS590M10-144	AS595M10-144	AS600M10-144
Pmax(Wp)	664	669	674	679	684
Voc(V)	55.75	55.95	56.13	56.32	56.51
Isc(A)	14.76	14.80	14.84	14.88	14.92
Vmpp(V)	46.62	46.83	47.04	47.25	47.46
Impp(A)	14.25	14.29	14.33	14.37	14.41

αsc (%/K): 0.04; βVoc (%/K): -0.24; γPmp (%/K): -0.24

BSTC: AM1.5, Front irradiance: 1000W/m², Back Irradiance 135W/m², Temperature=25°C

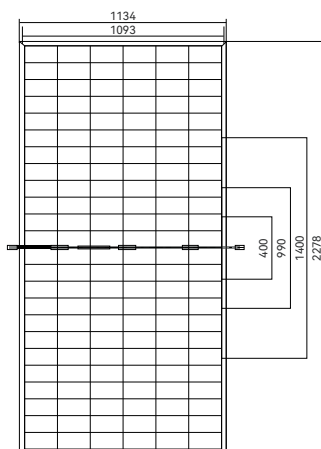
Mechanical Data

Cell(mm)	182×91 All Dimensions
Weight(kg)	32.5±0.5kg
Dimension(L×W×H)(mm)	2278×1134×30mm
Cable(mm)	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration (40' Container; 17.5'Trailer)	36pcs/pallet; 20pallet/container; 720pcs/container 36pcs/pallet; 24pallet/Trailer; 864pcs/Trailer

Working Condition

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rating	30A
Rear Side Mechanical Load	2400Pa
Front Side Mechanical Load	5400Pa
NOCT	44±2°C
Safety Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

Dimensions (mm)



I-V Diagram

