



15 Years
Product
Warranty

30 Years
Linear Power
Warranty

High Efficiency **HJT** Module

AS580-610M10-144 Bifacial

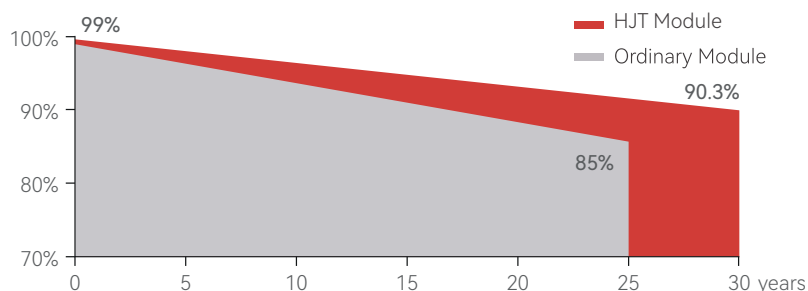
590W | 595W | 600W | 605W | 610W

610W
Maximum
Power Output

23.61%
Maximum
Efficiency

90%+
Bifaciality

Quality Assurance



Product Features



0BB Half Cell
Zero 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 23.61% 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	AS590M10-144	AS595M10-144	AS600M10-144	AS605M10-144	AS610M10-144
Pmax(Wp)	590	595	600	605	610
Voc(V)	53.33	54.52	54.71	54.90	55.09
Isc(A)	13.46	13.51	13.56	13.61	13.66
Vmpp(V)	45.44	45.65	45.86	46.07	46.28
Imp(A)	13.00	13.05	13.10	13.15	13.20
Efficiency	22.84%	23.03%	23.23%	23.42%	23.61%

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

Electrical Characteristics(BSTC)

Model	AS590M10-144	AS595M10-144	AS600M10-144	AS605M10-144	AS610M10-144
Pmax(Wp)	674	679	684	689	694
Voc(V)	56.13	56.32	56.51	56.70	56.89
Isc(A)	14.84	14.88	14.92	14.96	15.00
Vmpp(V)	47.04	47.25	47.46	47.67	47.88
Imp(A)	14.33	14.37	14.41	14.45	14.49

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

BSTC: AM1.5, Front irradiance: 1000W/m², Back Irradiance135W/m², Temperature=25°C

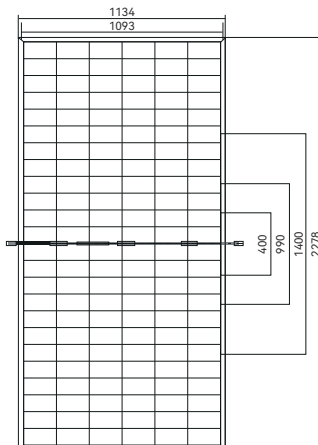
Mechanical Data

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; 23pallet/Trailer; 828pcs/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

