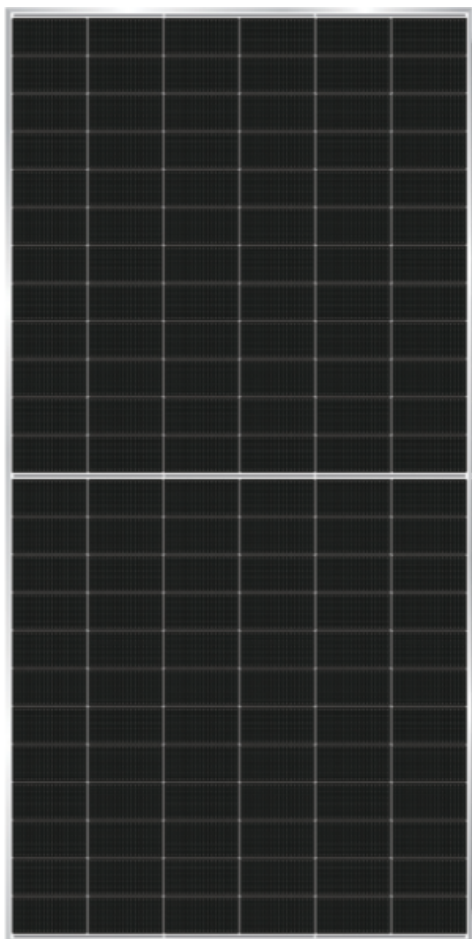




High **HJT** Module

SDM-M144-WD600

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

600W

Maximum
Power Output

23.23%

Maximum
Efficiency

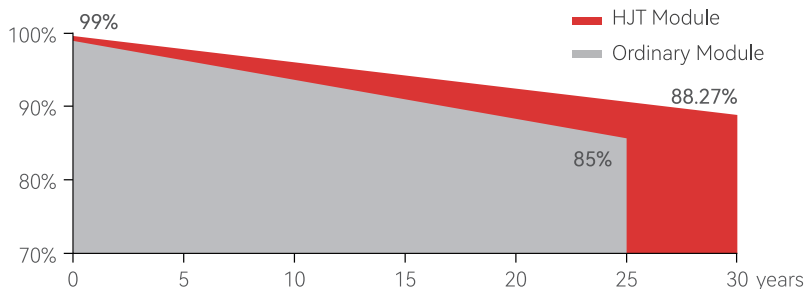
90%

Bifaciality

Quality Assurance

15 Years
Product
Warranty

30 Years
Linear Power
Warranty



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 11.73% power degradation over 30 years



Higher Performance

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

Certificates



JP-AC

SDM-M144-WD 580-600 W

Electrical Data(STC)

Model	SDM-M144-WD580	SDM-M144-WD585	SDM-M144-WD590	SDM-M144-WD595	SDM-M144-WD600
Pmax(Wp)	580	585	590	595	600
Voc(V)	53.92	54.06	54.20	54.34	54.42
Isc(A)	13.06	13.11	13.16	13.21	13.29
Vmpp(V)	46.41	46.58	46.76	46.93	47.10
Impp(A)	12.50	12.56	12.62	12.68	12.74
Efficiency	22.45%	22.65%	22.84%	23.03%	23.23%

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

Electrical Characteristics(BSTC)

Model	SDM-M144-WD580	SDM-M144-WD585	SDM-M144-WD590	SDM-M144-WD595	SDM-M144-WD600
Pmax(Wp)	638	644	649	655	660
Voc(V)	53.92	54.06	54.20	54.34	54.42
Isc(A)	14.37	14.42	14.48	14.53	14.62
Vmpp(V)	46.41	46.58	46.76	46.93	47.10
Impp(A)	13.75	13.82	13.88	13.95	14.01

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

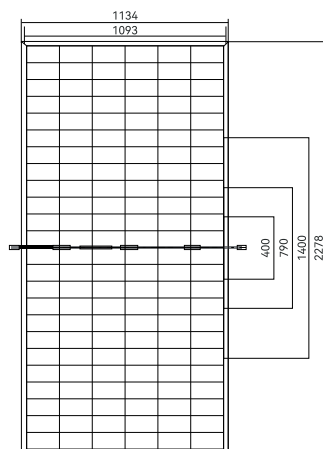
Mechanical Data

Cell(mm)	182×91
Weight(kg)	34±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

