

Jinri 6R

495-520W

SE6R-54HBD

N-Type HJT Bifacial Half Cell
Double-glass Solar Module

23.4%

Max. Module Efficiency

HJT Technology

Combining gettering process and $\mu\text{-Si}$ technology to ensure higher cell efficiency and higher module power.

Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

Sealing with PIB

Integrated coating frames ensuring modules passing the IEC salt-mist test level 8.

Suitable for Utility project

Lower BOS cost, lower LCOE.

Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology.

Quality Management System and Product Certification

IEC61215, IEC61730

ISO 9001:2015/quality management system

ISO 14001:2015/environmental management system

ISO 45001:2018/occupation health safety

IEC62941:2019/Terrestrial photovoltaic (PV) modules-Quality system for PV module manufacturing

Quality Guarantee

15 year

Product Warranty

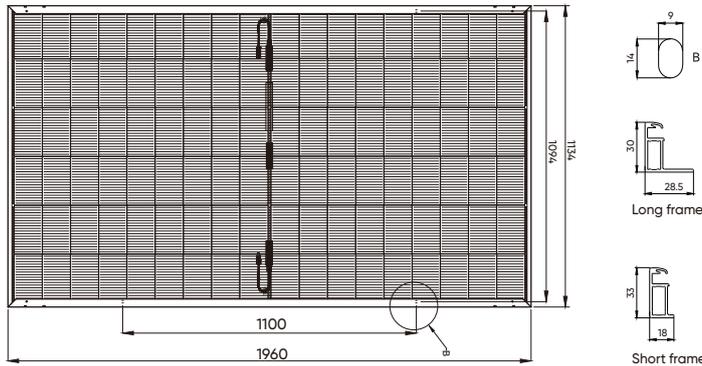
30 year

Linear Power Warranty

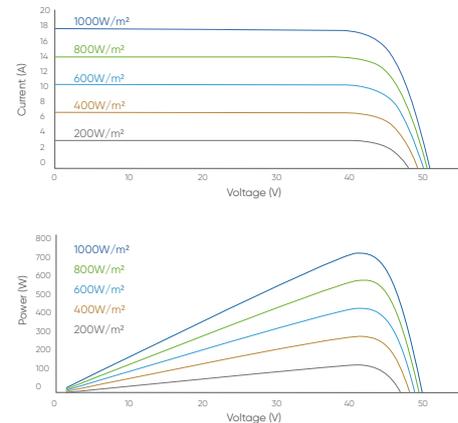


*First year power degradation $\leq 1\%$ *Annual power degradation (2-30 year) $\leq 0.3\%$ *Power output until the 30th year $\geq 90.3\%$

Engineering Drawings



I-V Curve



Mechanical Characteristics

Cell Type	HJT
No. of Cells	108 (6 × 18)
Dimensions	1960 × 1134 × 30mm
Weight	27.4kg
Junction Box	IP68
Cable	4mm²; 1250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm
Modules Per Pallet	36
Pallets Per Container	24
Modules Per Container (40HQ)	864

Operating Characteristics

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

Temperature Characteristics

Temperature Coefficient of Pmax	-0.24%/ °C
Temperature Coefficient of Voc	-0.22%/ °C
Temperature Coefficient of Isc	+0.04%/ °C

Electrical Parameters (STC & NOCT)

SE6R-54HBD	495		500		505		510		515		520	
	STC	NOCT										
Maximum Power (Pmax/W)	495	377	500	381	505	385	510	389	515	393	520	397
Maximum Power Voltage (Vmp/V)	34.05	32.53	34.16	32.63	34.27	32.73	34.38	32.83	34.49	32.93	34.60	33.03
Maximum Power Current (Imp/A)	14.54	11.62	14.64	11.70	14.74	11.78	14.84	11.86	14.94	11.94	15.04	12.02
Open Circuit Voltage (Voc/V)	40.65	38.80	40.76	38.90	40.87	39.01	40.98	39.11	41.09	39.22	41.20	39.32
Short Circuit Current (Isc/A)	15.37	12.28	15.48	12.37	15.59	12.46	15.70	12.55	15.81	12.64	15.92	12.72
Module Efficiency (%)	22.30		22.50		22.70		22.90		23.20		23.40	

STC: Irradiance 1000W/m², cell temperature 25°C, Air Mass AM1.5.

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Measuring tolerance: ±3%

Electrical Parameters (BSTC)

Total Equivalent Power- Pmax (Wp)	555	560	566	571	577	583
Maximum Power Voltage-Vmpp (V)	34.17	34.28	34.39	34.50	34.61	34.72
Maximum Power Current-Imp (A)	16.25	16.36	16.47	16.58	16.69	16.80
Open Circuit Voltage-Voc (V)	40.79	40.90	41.01	41.12	41.23	41.34
Short Circuit Current-Isc (A)	17.24	17.36	17.48	17.61	17.73	17.85

BSTC: AM1.5, 1000W/m², 135W/m², 25 °C