![Risun Solar Energy logo]

iNFINITY

N-type
Bifacial Module with Double Glass

RSM144 HBG
580~600W

15
15 years
product warranty

30
30 years linear
power warranty

23.2%
Max. Efficiency

- **Leading manufacturing**
  40+ years experience in high-tech manufacturing.

- **High environmental, social and governance responsibility (ESG)**
  100% green production, transparent supply chain and excellent ESG rating in the solar industry.
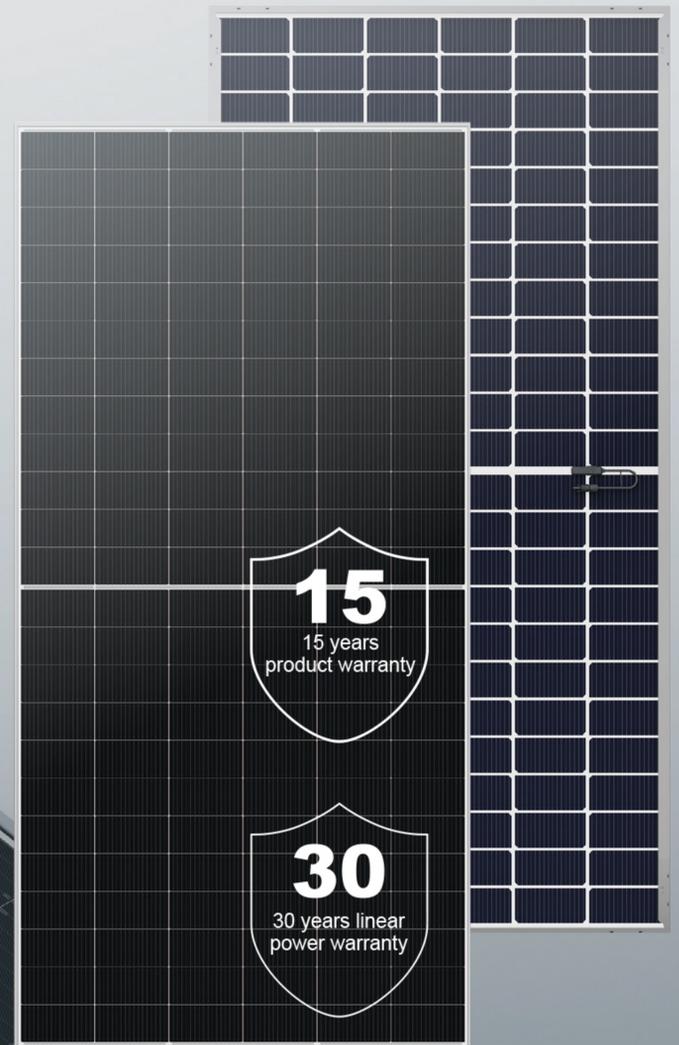
Top Choice For Project Applications
Improved IRR with shorter amortisation times, reduced LCOE (Levelised Cost of Energy) and lower BOS (Balance of System) costs.
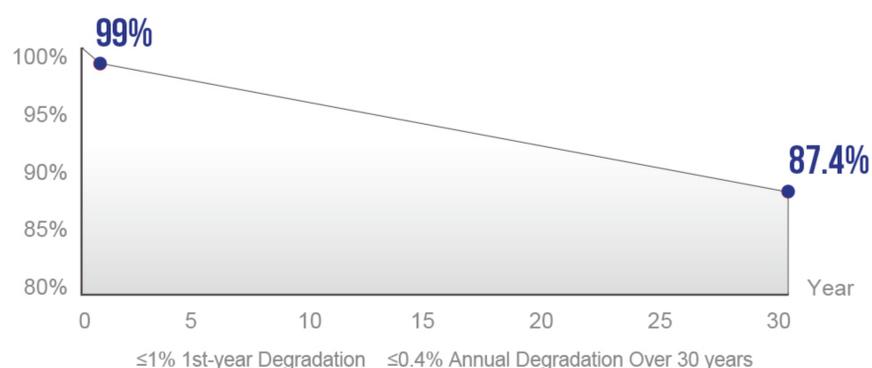
Extended Stress Tests
Protection against harsh environmental conditions certified by TÜV Rheinland.

Green Product
Focus on circular economy - low carbon footprint, PFAS-free and recyclable components.

COMPANY MANAGEMENT SYSTEM

SA 8000: ILO Standards. Social responsibility standards
ISO 9001: Quality management system
ISO 14001: Environmental management system
ISO 45001: Occupational health and safety management system
ISO 50001: Energy management system
ISO 27001: Information security management system

PRODUCT CERTIFICATION

IEC 61215, IEC 61730
Extended-Stress (IEC TS 63209)
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)
Dust & Sand (IEC 60068)

POWER WARRANTY

99%

87.4%

100%
95%
90%
85%
80%

0   5   10   15   20   25   30   Year

≤1% 1st-year Degradation   ≤0.4% Annual Degradation Over 30 years

TÜVRheinland CERTIFIED   CE   MCS CERTIFIED   WEEE SOLAR PV   SolarPower Europe

ISO   Warranty partner   Munich RE

RSM144HBG-580~600W

🔷 Module Specification

Cell Type	N type Mono-crystalline，144（6×24）
Dimensions (mm)	2278×1134×30
Weight (kg)	31.8
Front Cover	2 mm heat strengthened glass
Rear Cover	2 mm heat strengthened glass
Junction Box	3 Diodes , IP68 according to IEC 62790
Cables	4mm²/Portrait: 350mm (+)/250mm(-) Landscape: 1300mm(+)/1300mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4-EVO 2A（1500V）

Back side(mm)
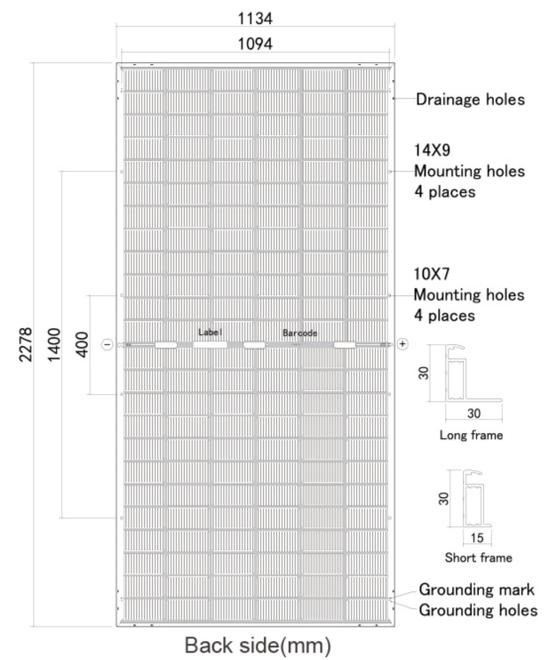
⚡ Electrical Specifications[1]

Module Type	RSM580M132HBG		RSM585M132HBG		RSM590M132HBG		RSM595M132HBG		RSM600M132HBG	
Testing Condition	STC[2]	NMOT[3]	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	580	436	585	440	590	444	595	448	600	452
Maximum Power Current (Imp/A)	13.24	10.64	13.30	10.69	13.36	10.74	13.42	10.79	13.47	10.83
Maximum Power Voltage (Vmp/V)	43.85	41.00	44.04	41.18	44.23	41.36	44.42	41.54	44.61	41.72
Short-circuit Current (Isc/A)	13.99	11.33	14.05	11.38	14.11	11.43	14.17	11.48	14.23	11.53
Open-circuit Voltage (Voc/V)	52.50	49.43	52.70	49.62	52.90	49.81	53.10	50.00	53.30	50.19
Module Efficiency STC (%)	22.5		22.6		22.8		23.0		23.2	

[1] Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ± 3 %, Test uncertainty for Pmax: ±3%, Bifaciality: 80 % ± 5 %

[2] STC (Standard Test Condition): Radiation 1000 W/m², Module temperature 25℃, AM = 1.5

[3] NMOT: Radiation 800 W/m², Ambient temperature 20℃, AM = 1.5, Wind Speed 1 m/s

Electrical Specifications[1]（BNPI[2]）

Nameplate Power (W)	**580**	**585**	**590**	**595**	**600**
Maximum Power (Pmax/W)	641	647	652	658	663
Maximum Power Current (Imp/A)	14.61	14.67	14.74	14.81	14.86
Maximum Power Voltage (Vmp/V)	43.90	44.09	44.28	44.47	44.66
Short-circuit Current (Isc/A)	15.39	15.46	15.52	15.59	15.66
Open-circuit Voltage (Voc/V)	52.51	52.71	52.91	53.11	53.31

[1] Measurements according to IEC 60904-3, Measurement tolerance: Isc:±4%, Voc: ± 3 %, Test uncertainty for Pmax:±3%

[2] BNPI: Front radiation 1000 W/m², Rear radiation 135 W/m², Module temperature 25℃, AM = 1.5

⚙ Operating Conditions

Operating Temperature (℃)	-40 to +85
Maximum System Voltage (V)	1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600

🌡 Temperature Characteristics
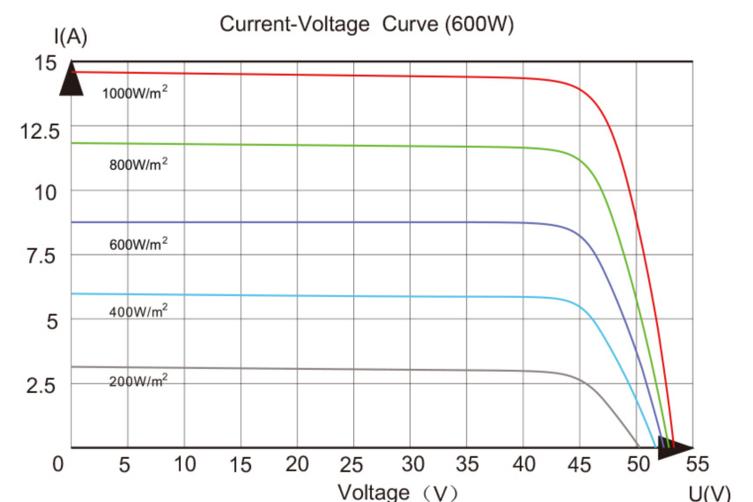
Nominal Module Operating Temperature (NMOT)	42±2℃
Temperature Coefficient of Pmax (%/℃)	-0.29
Temperature Coefficient of Voc (%/℃)	-0.25
Temperature Coefficient of Isc (%/℃)	+0.048

🔷 Packaging

Container	40HQ
Pallet Dimensions (mm)	2320×1140×1250
Pieces per Pallet	36
Pieces per Container	720

Current-Voltage Curve (600W)