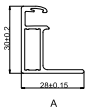
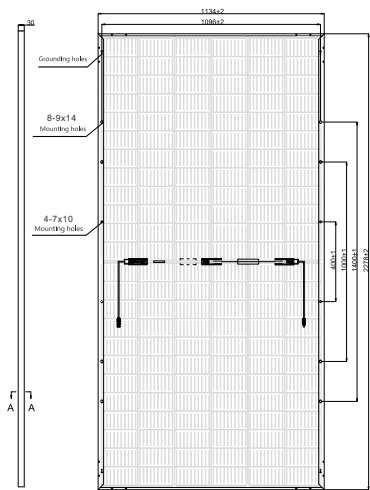


Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Type	RSM144-9-545BMDG	RSM144-9-550BMDG
Rated Power in Watts-Pmax(Wp)	545	550
Open Circuit Voltage-Voc(V)	49.70	49.80
Short Circuit Current-Isc(A)	13.84	13.94
Maximum Power Voltage-Vmpp(V)	42.11	42.20
Maximum Power Current-Impp(A)	12.96	13.04
Module Efficiency (%) *	21.1	21.3
Short Circuit Current-Isc-aBSI(A)	16.75	16.87

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3
 * Module Efficiency (%): Round-off to the nearest number
 Power sorting and binning tolerances: 0-5W; Power measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty;
 Bifacial factor: 70±10% * Module Efficiency (%): Round-off to the nearest number
 The first year degradation: 2%, annual degradation: 0.45%, power retention rate within 30 years: 84.95%
 ϕVoc=95±5%, ϕIsc=70±10%, ϕPmax=70±10%;

ELECTRICAL DATA (BNPI)

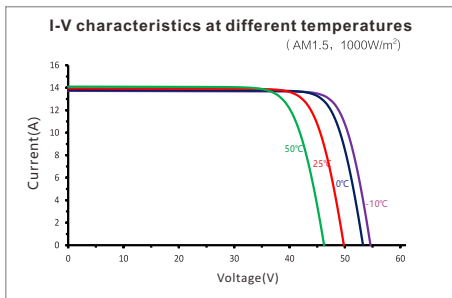
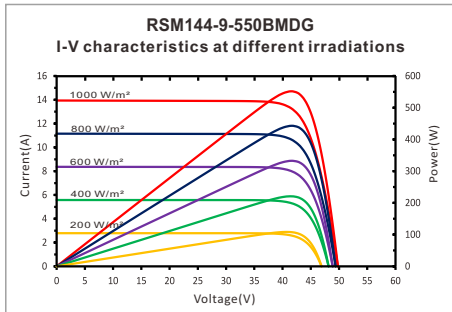
Total Equivalent power -Pmax (Wp)	600	605
Open Circuit Voltage-Voc(V)	49.70	49.80
Short Circuit Current-Isc(A)	15.22	15.33
Maximum Power Voltage-Vmpp(V)	42.11	42.20
Maximum Power Current-Impp(A)	14.26	14.34

The electrical data of the 10% rear side power gain is consistent with the BNPI data.
 BNPI: front side irradiance 1000 W/m², back side irradiance 135 W/m², 25 °C, AM 1.5 according to IEC TS 60904.

ELECTRICAL DATA (NMOT)

Model Type	RSM144-9-545BMDG	RSM144-9-550BMDG
Maximum Power-Pmax (Wp)	408.5	412.2
Open Circuit Voltage-Voc (V)	46.72	46.81
Short Circuit Current-Isc (A)	11.35	11.43
Maximum Power Voltage-Vmpp (V)	38.90	39.00
Maximum Power Current-Impp (A)	10.50	10.57

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



MECHANICAL DATA

Solar cells	p-type TOPCon
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2278 x 1134 x 30mm
Weight	32.5kg
Superstrate	High Transmission, Low Iron, Semi-Tempered ARC Glass
Substrate	Semi-Tempered Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm ² , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Zhejiang Twinsel Electronic Technology Co.,Ltd. PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Fire Class According to UL790	CLASS C
Max Series Fuse Rating	30A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	720
Number of modules per pallet	36
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2290 × 1110 × 1260
Box gross weight[kg]	1223



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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

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