

**ELECTRICAL DATA (STC)**

Model Type		RSM144-9-595BNDG	
Rated Power in Watts-Pmax(Wp)		595	
Open Circuit Voltage-Voc(V)		52.73	
Short Circuit Current-Isc(A)		14.30	
Maximum Power Voltage-Vmpp(V)		44.32	
Maximum Power Current-Impp(A)		13.43	
Module Efficiency (%) *		23.0	
Short Circuit Current-Isc-aBSI(A)		17.52	

STC: Irradiance 1000 W/m<sup>2</sup>, 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: 80±10% \* Module Efficiency (%): Round-off to the nearest number  
 The first year degradation: 1%, annual degradation: 0.4%, power retention rate within 30 years: 87.4%  
 ϕVoc=95±5%, ϕIsc=80±10%, ϕPmax=80±10%;

**ELECTRICAL DATA (BNPI)**

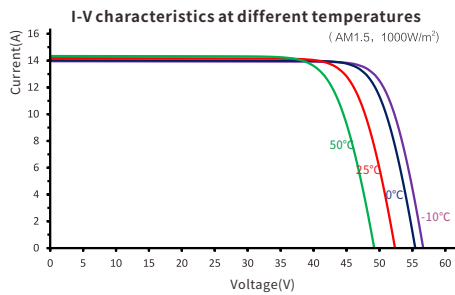
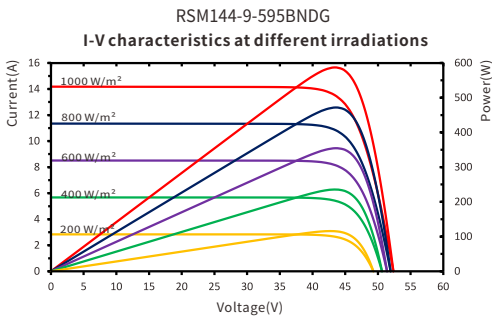
Total Equivalent power -Pmax (Wp)		655	
Open Circuit Voltage-Voc(V)		52.73	
Short Circuit Current-Isc(A)		15.73	
Maximum Power Voltage-Vmpp(V)		44.32	
Maximum Power Current-Impp(A)		14.77	

The electrical data of the 10% rear side power gain is consistent with the BNPI data.  
 BNPI: front side irradiance 1000 W/m<sup>2</sup>, back side irradiance 135 W/m<sup>2</sup>, 25 °C, AM 1.5 according to IEC TS 60904.

**ELECTRICAL DATA (NMOT)**

Model Type		RSM144-9-595BNDG	
Maximum Power-Pmax (Wp)		450.7	
Open Circuit Voltage-Voc (V)		49.04	
Short Circuit Current-Isc (A)		11.73	
Maximum Power Voltage-Vmpp (V)		41.13	
Maximum Power Current-Impp (A)		10.96	

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.



**MECHANICAL DATA**

Solar cells	<i>n</i> -type TOPCon
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2278×1134×30mm
Weight	31kg
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 <sup>2</sup> , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Zhejiang Twinsel Electronic Technology Co.,Ltd. PV-SY02, IP68

**PACKAGING CONFIGURATION**

	40ft(HQ)	20ft
Number of modules per container	720	180
Number of modules per pallet	36	36
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2290×1110×1260	
Box gross weight[kg]	1170	

**TEMPERATURE & MAXIMUM RATINGS**

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A



THE POWER OF RISING VALUE

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

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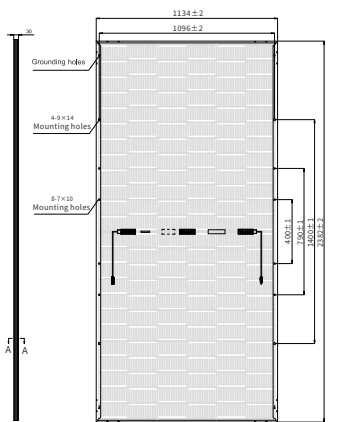
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**ELECTRICAL DATA (STC)**

Model Type	RSM144-10-615BNDG	RSM144-10-620BNDG	RSM144-10-625BNDG	RSM144-10-630BNDG
Rated Power in Watts-Pmax(Wp)	615	620	625	630
Open Circuit Voltage-Voc(V)	52.62	52.82	53.00	53.17
Short Circuit Current-Isc(A)	14.82	14.88	14.94	15.01
Maximum Power Voltage-Vmpp(V)	43.72	43.90	44.08	44.26
Maximum Power Current-Impp(A)	14.07	14.13	14.20	14.26
Module Efficiency (%) *	22.8	23.0	23.2	23.3
Short Circuit Current-Isc-ABS(A)	18.15	18.23	18.30	18.39

STC: Irradiance 1000 W/m<sup>2</sup>, 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: 80±10% \* Module Efficiency (%): Round-off to the nearest number  
 The first year degradation: 1% annual degradation: 0.4%, power retention rate within 30 years: 87.4%  
 ρVoc=95±5%, ρIsc=80±10%, ρPmax=80±10%;

**Dimensions of PV Module** Unit: mm



**ELECTRICAL DATA (BNPI)**

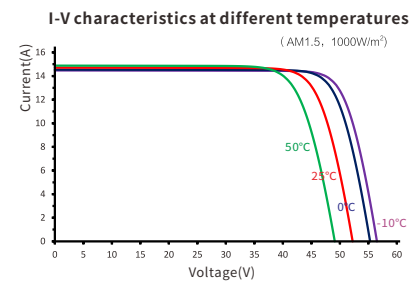
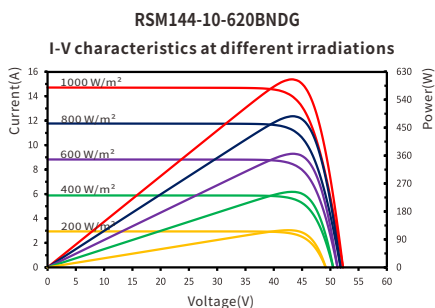
Total Equivalent power -Pmax (Wp)	676	682	688	694
Open Circuit Voltage-Voc(V)	52.62	52.82	53.00	53.17
Short Circuit Current-Isc(A)	16.30	16.36	16.43	16.51
Maximum Power Voltage-Vmpp(V)	43.72	43.90	44.08	44.26
Maximum Power Current-Impp(A)	15.47	15.54	15.61	15.69

The electrical data of the 10% rear side power gain is consistent with the BNPI data.  
 BNPI: front side irradiance 1000 W/m<sup>2</sup>, back side irradiance 135 W/m<sup>2</sup>, 25 °C, AM 1.5 according to IEC TS 60904.

**ELECTRICAL DATA (NMOT)**

Model Type	RSM144-10-615BNDG	RSM144-10-620BNDG	RSM144-10-625BNDG	RSM144-10-630BNDG
Maximum Power-Pmax (Wp)	465.6	469.7	473.8	477.9
Open Circuit Voltage-Voc (V)	48.94	49.12	49.29	49.45
Short Circuit Current-Isc (A)	12.15	12.20	12.25	12.31
Maximum Power Voltage-Vmpp (V)	40.57	40.74	40.91	41.07
Maximum Power Current-Impp (A)	11.48	11.53	11.58	11.64

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.



**MECHANICAL DATA**

Solar cells	n-type TOPCon
Cell configuration	144 cells (6 × 12 + 6 × 12)
Module dimensions	2382 × 1134 × 30mm
Weight	32kg
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 <sup>2</sup> , 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	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A

**PACKAGING CONFIGURATION**

	40ft(HQ)	20ft
Number of modules per container	720	144
Number of modules per pallet	36	36
Number of pallets per container	20	4
Packaging box dimensions (LxWxH) in mm	2395 × 1110 × 1260	
Box gross weight [kg]	1220	



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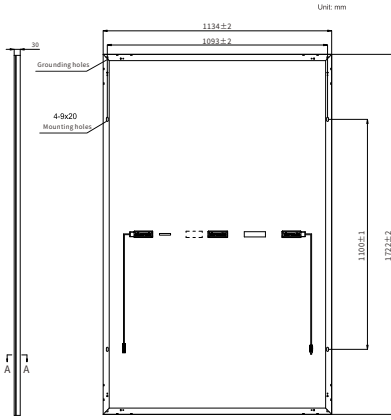
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Dimensions of PV Module



ELECTRICAL DATA (STC)

Model Type	RSM108-9-440NDG
Rated Power in Watts-Pmax(Wp)	440
Open Circuit Voltage-Voc(V)	39.65
Short Circuit Current-Isc(A)	14.09
Maximum Power Voltage-Vmpp(V)	33.38
Maximum Power Current-Impp(A)	13.19
Module Efficiency (%) ★	22.5

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3  
 \* Module Efficiency(%): Round-off to the nearest number  
 Sorting and binning tolerances: 0-5W Measurement tolerance: ±3%  
 Short Circuit Current tolerance ±4% Open Circuit Voltage tolerance: ±3%  
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty  
 The first year degradation:1%, annual degradation:0.4%, power retention rate within 30 years:87.4%

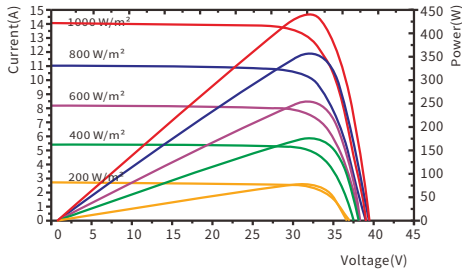
ELECTRICAL DATA (NMOT)

Model Type	RSM108-9-440NDG
Maximum Power-Pmax (Wp)	333.4
Open Circuit Voltage-Voc (V)	36.84
Short Circuit Current-Isc (A)	11.55
Maximum Power Voltage-Vmpp (V)	30.98
Maximum Power Current-Impp (A)	10.76

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

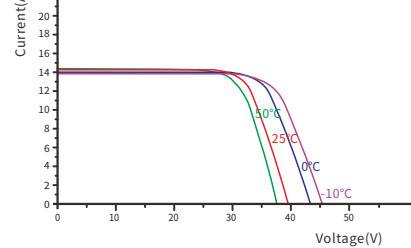
RSM108-9-425NDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures

(AM1.5, 1000W/m<sup>2</sup>)



MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	108 cells (6×9+6×9)
Module dimensions	1722×1134×30/35mm
Weight	20.5~28.5kg
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 <sup>2</sup> , Positive(+)1200mm, Negative(-)1200mm (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	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UL790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	936	216
Number of modules per pallet	36	36
Number of pallets per container	26	6
Packaging box dimensions (LxWxH) in mm	1745×1110×1260	
Box gross weight [kg]	780	



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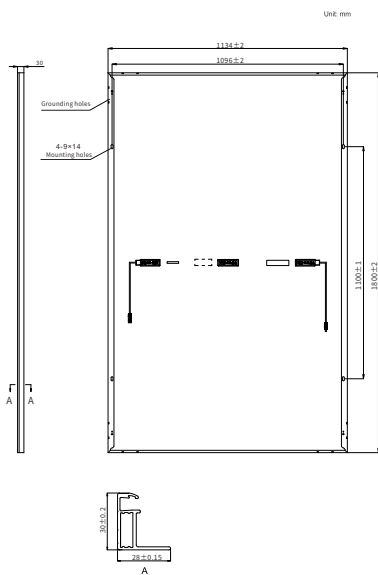
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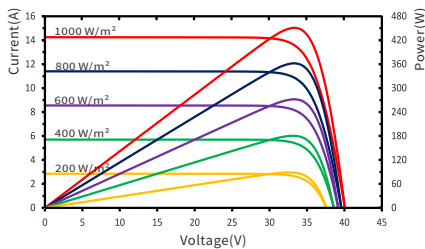
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Dimensions of PV Module

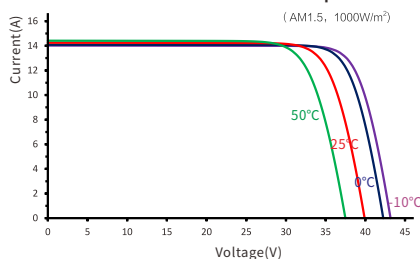


RSM108-10-455NDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures



PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	864	216
Number of modules per pallet	36	36
Number of pallets per container	24	6
Packaging box dimensions (LxWxH) in mm	1820×1110×1260	
Box gross weight[kg]	950	

ELECTRICAL DATA (STC)

Model Type	RSM108-10-440NDG	RSM108-10-445NDG	RSM108-10-450NDG	RSM108-10-455NDG	RSM108-10-460NDG
Rated Power in Watts-Pmax(Wp)	440	445	450	455	460
Open Circuit Voltage-Voc(V)	38.61	38.83	39.05	39.26	39.47
Short Circuit Current-Isc(A)	14.55	14.61	14.66	14.72	14.79
Maximum Power Voltage-Vmpp(V)	32.08	32.26	32.44	32.64	32.84
Maximum Power Current-Impp(A)	13.74	13.82	13.88	13.94	14.01
Module Efficiency (%) *	21.6	21.8	22.1	22.3	22.5

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

Sorting and binning tolerances: 0-5W Measurement tolerance: ±3%

Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%

15 Years Limited Product Warranty; 30 Years Limited Power Warranty

The first year degradation:1%, annual degradation:0.4%, power retention rate within 30 years:87.4%

ELECTRICAL DATA (NMOT)

Model Type	RSM108-10-440NDG	RSM108-10-445NDG	RSM108-10-450NDG	RSM108-10-455NDG	RSM108-10-460NDG
Maximum Power-Pmax (Wp)	333.7	337.7	341.0	344.7	348.4
Open Circuit Voltage-Voc (V)	35.91	36.11	36.32	36.51	36.71
Short Circuit Current-Isc (A)	11.93	11.98	12.02	12.07	12.13
Maximum Power Voltage-Vmpp (V)	29.77	29.94	30.10	30.29	30.48
Maximum Power Current-Impp (A)	11.21	11.28	11.33	11.38	11.43

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

MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	108 cells (6×9+6×9)
Module dimensions	1800×1134×30/35mm
Weight	21.5~28.5kg
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	4.0mm², Positive(+) 350mm, Negative(-) 230mm (Connector Included)
Connector	Zhejiang Twinsele Electronic Technology Co.,Ltd. PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A



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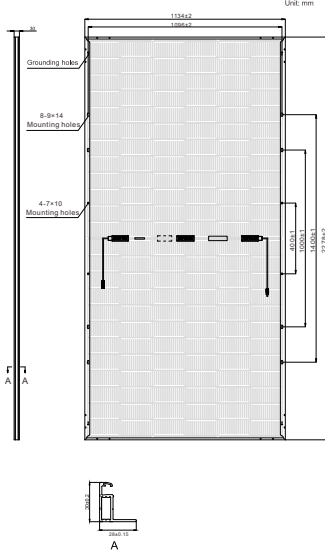
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Dimensions of PV Module



ELECTRICAL DATA (STC)

Model Type	RSM144-9-580BNDG	RSM144-9-585BNDG	RSM144-9-590BNDG
Rated Power in Watts-Pmax(Wp)	580	585	590
Open Circuit Voltage-Voc(V)	52.17	52.37	52.55
Short Circuit Current-Isc(A)	14.12	14.18	14.24
Maximum Power Voltage-Vmpp(V)	43.80	44.00	44.16
Maximum Power Current-Impp(A)	13.26	13.32	13.37
Module Efficiency (%) *	22.5	22.7	22.8
Short Circuit Current-Isc-aBSI(A)	17.30	17.37	17.44

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3  
 \* Module Efficiency (%): Round-off to the nearest number  
 Sorting and binning tolerances: 0-5W 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: 80±10% \* Module Efficiency (%): Round-off to the nearest number  
 The first year degradation: 1%, annual degradation: 0.4%, power retention rate within 30 years: 87.4%  
 ϕVoc=95%±5%, ϕIsc=80%±10%, ϕPmax=80%±10%;

Electrical characteristics with 13.5% rear side power gain

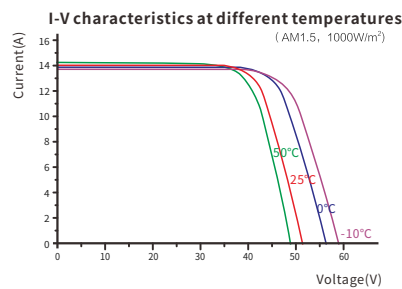
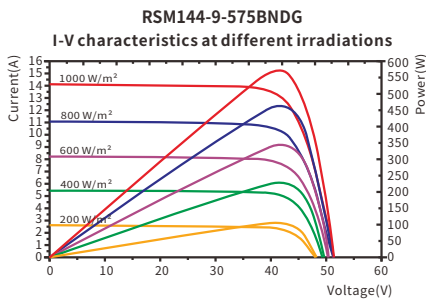
	638	644	649
Total Equivalent power -Pmax (Wp)	638	644	649
Open Circuit Voltage-Voc(V)	52.17	52.37	52.55
Short Circuit Current-Isc(A)	15.53	15.60	15.66
Maximum Power Voltage-Vmpp(V)	43.80	44.00	44.16
Maximum Power Current-Impp(A)	14.59	14.65	14.71

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Type	RSM144-9-580BNDG	RSM144-9-585BNDG	RSM144-9-590BNDG
Maximum Power-Pmax (Wp)	439.8	443.6	447.1
Open Circuit Voltage-Voc (V)	48.52	48.70	48.87
Short Circuit Current-Isc (A)	11.58	11.63	11.68
Maximum Power Voltage-Vmpp (V)	40.65	40.83	40.98
Maximum Power Current-Impp (A)	10.82	10.87	10.91

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.



MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2278×1134×30/35mm
Weight	30.0~38.0kg
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 <sup>2</sup> , 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	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UL790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	720	180
Number of modules per pallet	36	36
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2290×1110×1260	
Box gross weight[kg]	1170	



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**ELECTRICAL DATA (STC)**

Model Type	RSM144-10-605BNDG	RSM144-10-610BNDG
Rated Power in Watts-Pmax(Wp)	605	610
Open Circuit Voltage-Voc(V)	52.24	52.43
Short Circuit Current-Isc(A)	14.71	14.77
Maximum Power Voltage-Vmpp(V)	43.40	43.56
Maximum Power Current-Impp(A)	13.95	14.01
Module Efficiency (%) *	22.4	22.6
Short Circuit Current-Isc-aBSI(A)	18.02	18.09

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3  
 \* Module Efficiency (%): Round-off to the nearest number  
 Sorting and binning tolerances: 0.5W 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: 80±10% \* Module Efficiency (%): Round-off to the nearest number  
 The first year degradation: 1% annual degradation: 0.4% power retention rate within 30 years: 87.4%  
 ϕVoc=95%±5%, ϕIsc=80%±10%, ϕPmax=80%±10%;

**Electrical characteristics with 13.5% rear side power gain**

Total Equivalent power -Pmax (Wp)	666	671
Open Circuit Voltage-Voc(V)	52.24	52.43
Short Circuit Current-Isc(A)	16.18	16.25
Maximum Power Voltage-Vmpp(V)	43.40	43.56
Maximum Power Current-Impp(A)	15.35	15.41

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

**ELECTRICAL DATA (NMOT)**

Model Type	RSM144-10-605BNDG	RSM144-10-610BNDG
Maximum Power-Pmax (Wp)	458.5	462.1
Open Circuit Voltage-Voc (V)	48.58	48.76
Short Circuit Current-Isc (A)	12.06	12.11
Maximum Power Voltage-Vmpp (V)	40.28	40.42
Maximum Power Current-Impp (A)	11.38	11.43

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

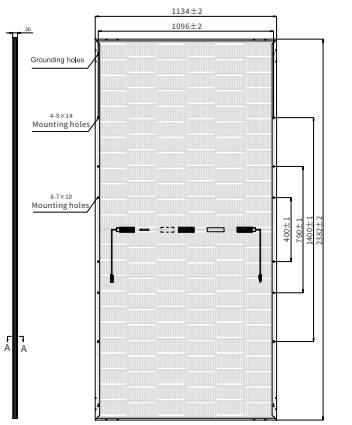
**MECHANICAL DATA**

Solar cells	n-type TOPCon
Cell configuration	144 cells (6×12×6×12)
Module dimensions	2382/2384×1134×30/35mm
Weight	30.0~38.0kg
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 <sup>2</sup> , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Zhejiang Twinsel Electronic Technology Co.,Ltd. PV-SY02, IP68

**TEMPERATURE & MAXIMUM RATINGS**

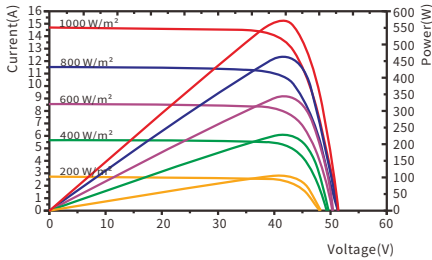
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

**Dimensions of PV Module** Unit: mm



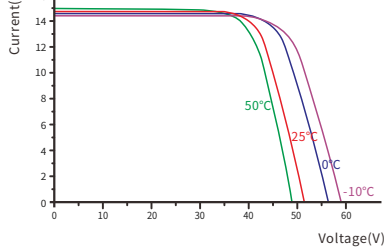
**RSM144-10-605BNDG**

**I-V characteristics at different irradiances**



**I-V characteristics at different temperatures**

(AM1.5, 1000W/m<sup>2</sup>)



**PACKAGING CONFIGURATION**

	40ft(HQ)	20ft
Number of modules per container	720	144
Number of modules per pallet	36	36
Number of pallets per container	20	4
Packaging box dimensions (LxWxH) in mm	2395×1110×1260	
Box gross weight [kg]	1220	



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

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