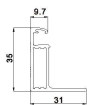
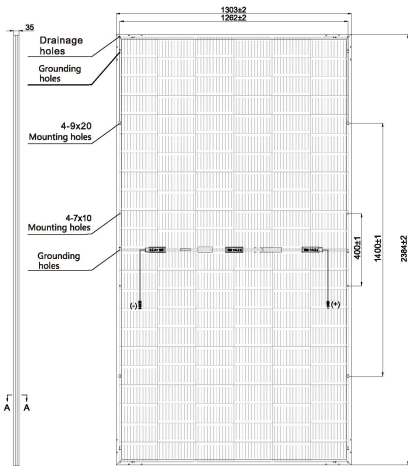


Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM132-8-635BMDG	RSM132-8-640BMDG	RSM132-8-645BMDG	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG
Rated Power in Watts-Pmax(Wp)	635	640	645	650	655	660
Open Circuit Voltage-Voc(V)	44.89	45.09	45.29	45.49	45.69	45.89
Short Circuit Current-Isc(A)	18.03	18.08	18.13	18.18	18.23	18.28
Maximum Power Voltage-Vmpp(V)	37.32	37.51	37.69	37.87	38.05	38.23
Maximum Power Current-Imp(A)	17.02	17.07	17.12	17.17	17.22	17.27
Module Efficiency (%) ★	20.4	20.6	20.8	20.9	21.1	21.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	699	704	710	715	721	726
Total Equivalent power -Pmax (Wp)	699	704	710	715	721	726
Open Circuit Voltage-Voc(V)	44.89	45.09	45.29	45.49	45.69	45.89
Short Circuit Current-Isc(A)	19.83	19.89	19.94	20.00	20.05	20.11
Maximum Power Voltage-Vmpp(V)	37.32	37.51	37.69	37.87	38.05	38.23
Maximum Power Current-Imp(A)	18.72	18.78	18.83	18.89	18.94	19.00

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 Number	RSM132-8-635BMDG	RSM132-8-640BMDG	RSM132-8-645BMDG	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG
Maximum Power-Pmax (Wp)	481.0	484.9	488.6	492.4	496.2	500.0
Open Circuit Voltage-Voc (V)	41.75	41.93	42.12	42.31	42.49	42.68
Short Circuit Current-Isc (A)	14.78	14.83	14.87	14.91	14.95	14.99
Maximum Power Voltage-Vmpp (V)	34.63	34.81	34.98	35.14	35.31	35.48
Maximum Power Current-Imp (A)	13.89	13.93	13.97	14.01	14.05	14.09

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×30/35/40mm
Weight	35~43kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color/ High strength alloy steel
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

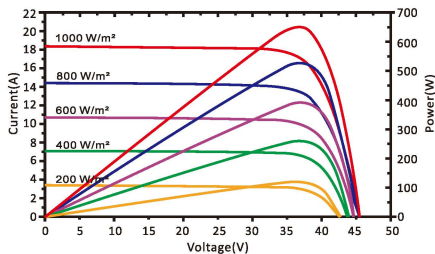
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

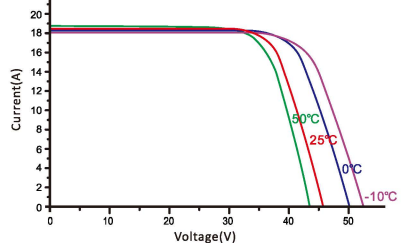
	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Box gross weight[kg]	1245

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RSM132-8-660BMDG
I-V characteristics at different irradiances



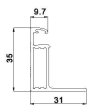
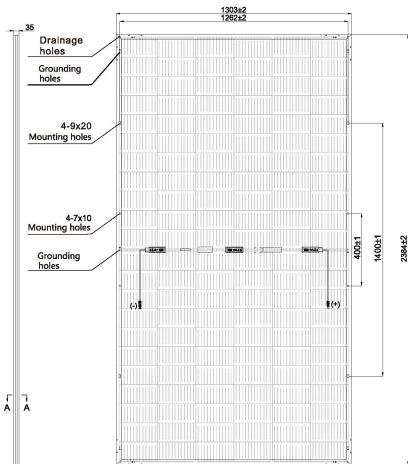
I-V characteristics at different temperatures
 (AM1.5, 1000W/m²)



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 REM132-BMDG-12BB-EN-H1-1-2022-CEC

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM132-8-665BMDG	RSM132-8-670BMDG
Rated Power in Watts-Pmax(Wp)	665	670
Open Circuit Voltage-Voc(V)	46.09	46.29
Short Circuit Current-Isc(A)	18.33	18.38
Maximum Power Voltage-Vmpp(V)	38.41	38.59
Maximum Power Current-Imp(A)	17.32	17.37
Module Efficiency (%) ★	21.4	21.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	731	737
Open Circuit Voltage-Voc(V)	46.09	46.29
Short Circuit Current-Isc(A)	20.16	20.22
Maximum Power Voltage-Vmpp(V)	38.41	38.59
Maximum Power Current-Imp(A)	19.05	19.11

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 Number	RSM132-8-665BMDG	RSM132-8-670BMDG
Maximum Power-Pmax (Wp)	503.8	507.6
Open Circuit Voltage-Voc (V)	42.86	43.05
Short Circuit Current-Isc (A)	15.03	15.07
Maximum Power Voltage-Vmpp (V)	35.64	35.81
Maximum Power Current-Imp (A)	14.13	14.17

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×30/35/40mm
Weight	35~43kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color/ High strength alloy steel
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

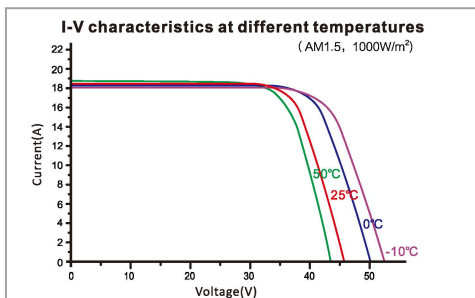
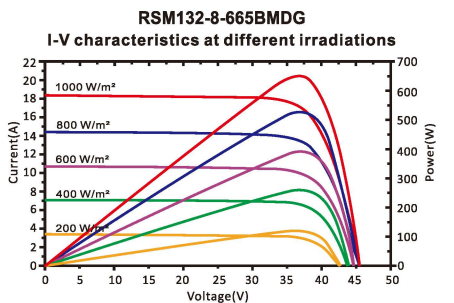
TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Box gross weight[kg]	1245

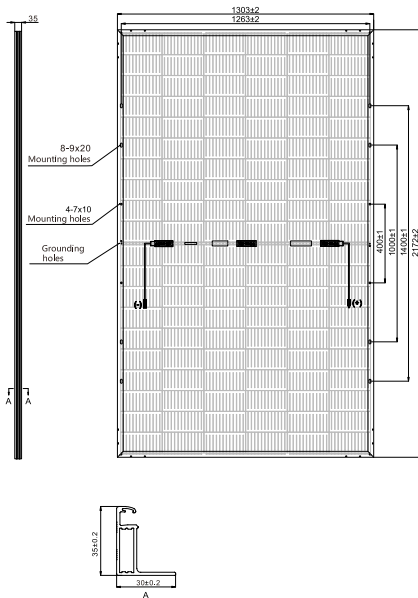
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 REM132-BMDG-12BB-EN-H1-1-2022-CEC

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM120-8-610BMDG
Rated Power in Watts-Pmax(Wp)	610
Open Circuit Voltage-Voc(V)	42.20
Short Circuit Current-Isc(A)	18.37
Maximum Power Voltage-Vmpp(V)	35.18
Maximum Power Current-Imp(A)	17.35
Module Efficiency (%) ★	21.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3% Output power tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	671
Open Circuit Voltage-Voc(V)	42.20
Short Circuit Current-Isc(A)	20.21
Maximum Power Voltage-Vmpp(V)	35.18
Maximum Power Current-Imp(A)	19.09

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 Number	RSM120-8-610BMDG
Maximum Power-Pmax (Wp)	462.2
Open Circuit Voltage-Voc (V)	39.25
Short Circuit Current-Isc (A)	15.06
Maximum Power Voltage-Vmpp (V)	32.65
Maximum Power Current-Imp (A)	14.16

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120 cells (6×10×6×10)
Module dimensions	2172x1303x30/35/40mm
Weight	32~37kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)+350mm, Negative(-)-350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

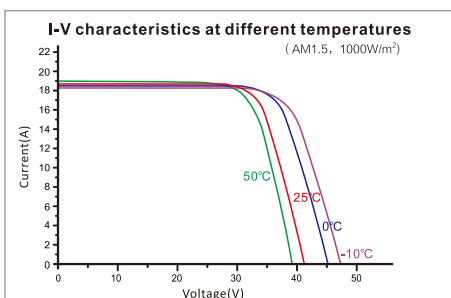
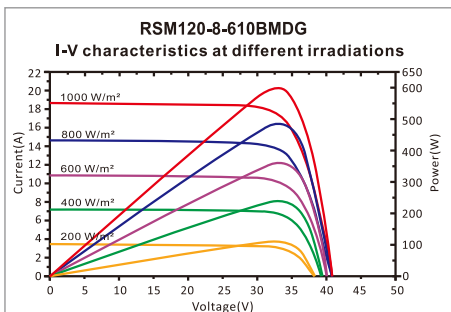
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	527
Number of modules per pallet	31
Number of pallets per container	17
Box gross weight[kg]	1100

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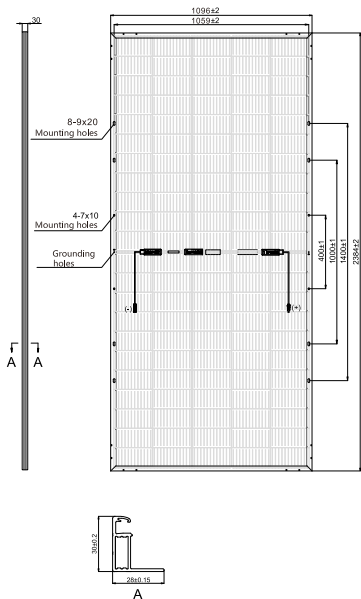


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 REM120-BMDG-12BB-EN-H2-6-2020-CEC-AU

Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM110-8-560BMDG
Rated Power in Watts-Pmax(Wp)	560
Open Circuit Voltage-Voc(V)	38.76
Short Circuit Current-Isc(A)	18.33
Maximum Power Voltage-Vmpp(V)	32.35
Maximum Power Current-Impp(A)	17.32
Module Efficiency (%) ★	21.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3% Output power tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	616
Open Circuit Voltage-Voc(V)	38.76
Short Circuit Current-Isc(A)	20.16
Maximum Power Voltage-Vmpp(V)	32.35
Maximum Power Current-Impp(A)	19.05

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 Number	RSM110-8-560BMDG
Maximum Power-Pmax (Wp)	424.3
Open Circuit Voltage-Voc (V)	36.05
Short Circuit Current-Isc (A)	15.03
Maximum Power Voltage-Vmpp (V)	30.02
Maximum Power Current-Impp (A)	14.13

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	110 cells (5×11+5×11)
Module dimensions	2384x1096x30/35/40mm
Weight	31~35kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)-350mm, Negative(-)-350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

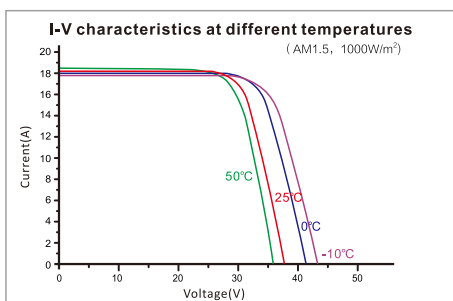
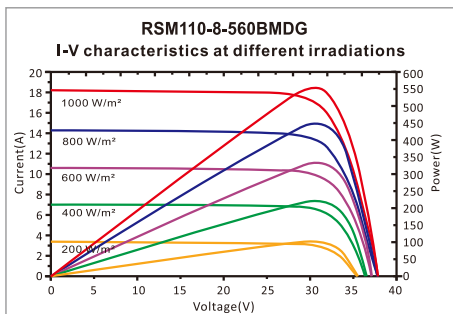
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	560
Number of modules per pallet	35
Number of pallets per container	16
Box gross weight[kg]	1200

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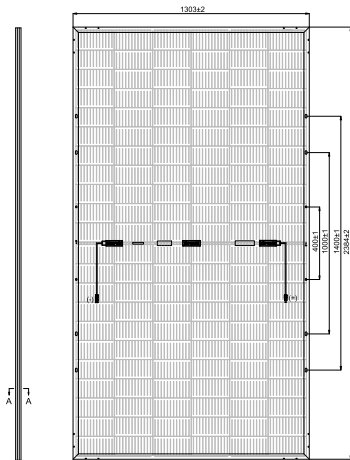
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 REM110-BMDG-12BB-EN-H2-4-2020-CEC-AU

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG	RSM132-8-670BMDG
Rated Power in Watts-Pmax(Wp)	650	655	660	665	670
Open Circuit Voltage-Voc(V)	45.49	45.69	45.89	46.09	46.29
Short Circuit Current-Isc(A)	18.18	18.23	18.28	18.33	18.38
Maximum Power Voltage-Vmpp(V)	37.87	38.05	38.23	38.41	38.59
Maximum Power Current-Impp(A)	17.17	17.22	17.27	17.32	17.37
Module Efficiency (%) ★	20.9	21.1	21.2	21.4	21.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number

Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%

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

15 Years Limited Product Warranty; 30 Years Limited Power Warranty

ELECTRICAL DATA (NMOT)

Model Number	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG	RSM132-8-670BMDG
Maximum Power-Pmax (Wp)	492.4	496.2	500.0	503.8	507.6
Open Circuit Voltage-Voc (V)	42.31	42.49	42.68	42.86	43.05
Short Circuit Current-Isc (A)	14.91	14.95	14.99	15.03	15.07
Maximum Power Voltage-Vmpp (V)	35.14	35.31	35.48	35.64	35.81
Maximum Power Current-Impp (A)	14.01	14.05	14.09	14.13	14.17

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×30/35/40mm
Weight	35~40kg
Substrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel 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	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

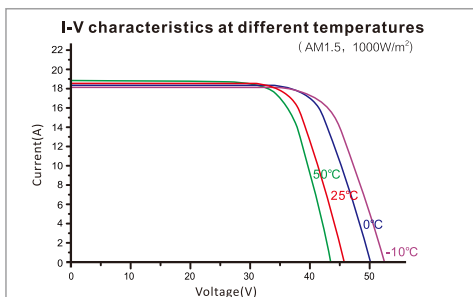
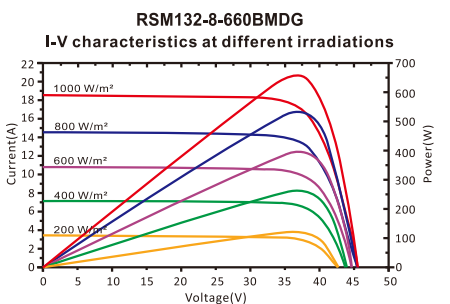
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	527
Number of modules per pallet	31
Number of pallets per container	17
Box gross weight[kg]	1230

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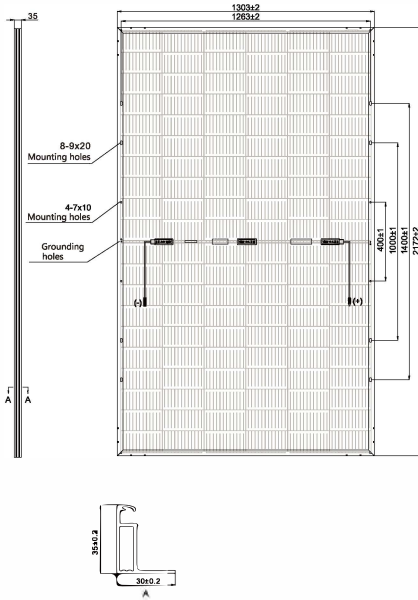
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REM120-BMDG-12BB-EN-H1-1-2021-CEC

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM120-8-590BMDG	RSM120-8-595BMDG	RSM120-8-600BMDG	RSM120-8-605BMDG
Rated Power in Watts-Pmax(Wp)	590	595	600	605
Open Circuit Voltage-Voc(V)	41.30	41.50	41.70	41.90
Short Circuit Current-Isc(A)	18.16	18.21	18.26	18.32
Maximum Power Voltage-Vmpp(V)	34.42	34.60	34.80	34.98
Maximum Power Current-Imp(A)	17.15	17.20	17.25	17.30
Module Efficiency (%) *	20.8	21.0	21.2	21.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number

Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	649	655	660	665
Total Equivalent power-Pmax (Wp)	649	655	660	665
Open Circuit Voltage-Voc(V)	41.30	41.50	41.70	41.90
Short Circuit Current-Isc(A)	19.98	20.03	20.09	20.15
Maximum Power Voltage-Vmpp(V)	34.42	34.60	34.80	34.98
Maximum Power Current-Imp(A)	18.87	18.92	18.98	19.03

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 Number	RSM120-8-590BMDG	RSM120-8-595BMDG	RSM120-8-600BMDG	RSM120-8-605BMDG
Maximum Power-Pmax (Wp)	447.0	450.7	454.6	458.3
Open Circuit Voltage-Voc (V)	38.41	38.60	38.78	38.97
Short Circuit Current-Isc (A)	14.89	14.93	14.97	15.02
Maximum Power Voltage-Vmpp (V)	31.94	32.11	32.29	32.46
Maximum Power Current-Imp (A)	13.99	14.04	14.08	14.12

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120 cells (6×10×6×10)
Module dimensions	2172×1303×30/35/40mm
Weight	32~37kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel 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	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASSA (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

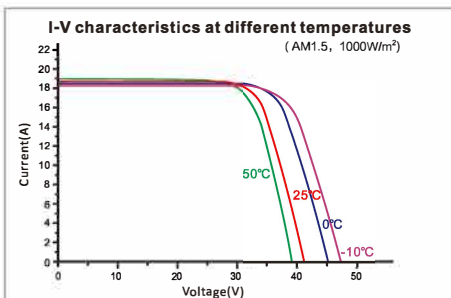
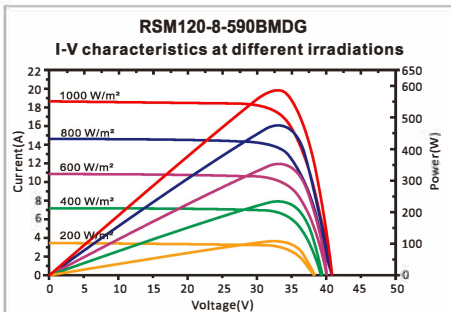
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	527
Number of modules per pallet	31
Number of pallets per container	17
Box gross weight[kg]	1100

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

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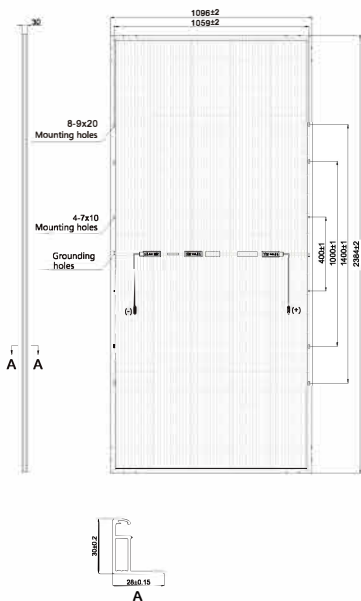
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REM120-BMDG-12BB-EN-H2-6-2020-CEC-AU

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM110-8-540BMDG	RSM110-8-545BMDG	RSM110-8-550BMDG	RSM110-8-555BMDG
Rated Power in Watts-Pmax(Wp)	540	545	550	555
Open Circuit Voltage-Voc(V)	37.88	38.10	38.32	38.54
Short Circuit Current-Isc(A)	18.13	18.18	18.23	18.28
Maximum Power Voltage-Vmpp(V)	31.56	31.76	31.96	32.16
Maximum Power Current-Imp(A)	17.12	17.17	17.22	17.27
Module Efficiency (%) *	20.7	20.9	21.0	21.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	594	600	605	610
Total Equivalent power-Pmax (Wp)	594	600	605	610
Open Circuit Voltage-Voc(V)	37.88	38.10	38.32	38.54
Short Circuit Current-Isc(A)	19.94	20.00	20.05	20.11
Maximum Power Voltage-Vmpp(V)	31.56	31.76	31.96	32.16
Maximum Power Current-Imp(A)	18.83	18.89	18.94	19.00

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 Number	RSM110-8-540BMDG	RSM110-8-545BMDG	RSM110-8-550BMDG	RSM110-8-555BMDG
Maximum Power-Pmax (Wp)	409.1	412.9	416.8	420.6
Open Circuit Voltage-Voc (V)	35.23	35.43	35.64	35.84
Short Circuit Current-Isc (A)	14.87	14.91	14.95	14.99
Maximum Power Voltage-Vmpp (V)	29.29	29.47	29.66	29.84
Maximum Power Current-Imp (A)	13.97	14.01	14.05	14.09

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	110 cells (5×11+5×11)
Module dimensions	2384×1096×30/35/40mm
Weight	31~35kg (approx)
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

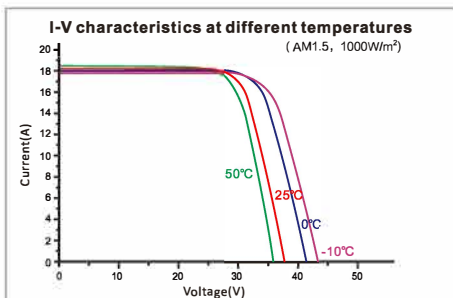
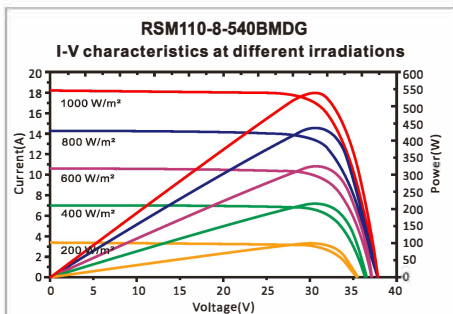
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	560
Number of modules per pallet	35
Number of pallets per container	16
Box gross weight[kg]	1200

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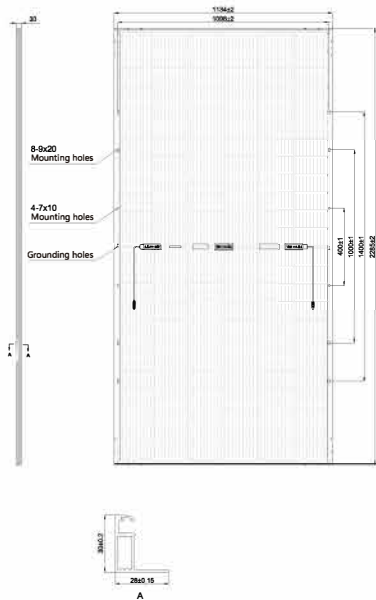
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 REM110-BMDG-12BB-EN-H2-4-2020-CEC-AU

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM144-9-520BMDG	RSM144-9-525BMDG	RSM144-9-530BMDG	RSM144-9-535BMDG	RSM144-9-540BMDG
Rated Power in Watts-Pmax(Wp)	520	525	530	535	540
Open Circuit Voltage-Voc(V)	49.20	49.30	49.40	49.50	49.60
Short Circuit Current-Isc(A)	13.35	13.45	13.55	13.64	13.73
Maximum Power Voltage-Vmpp(V)	41.55	41.65	41.75	41.87	41.99
Maximum Power Current-Imp(A)	12.52	12.61	12.70	12.79	12.88
Module Efficiency (%) *	20.1	20.3	20.5	20.6	20.8

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number

Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%

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

15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	572	578	583	589	594
Total Equivalent power -Pmax (Wp)	572	578	583	589	594
Open Circuit Voltage-Voc(V)	49.20	49.30	49.40	49.50	49.60
Short Circuit Current-Isc(A)	14.69	14.80	14.91	15.00	15.10
Maximum Power Voltage-Vmpp(V)	41.55	41.65	41.75	41.87	41.99
Maximum Power Current-Imp(A)	13.77	13.87	13.97	14.06	14.17

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 Number	RSM144-9-520BMDG	RSM144-9-525BMDG	RSM144-9-530BMDG	RSM144-9-535BMDG	RSM144-9-540BMDG
Maximum Power-Pmax (Wp)	389.4	393.2	397.1	400.9	404.8
Open Circuit Voltage-Voc (V)	46.25	46.34	46.44	46.53	46.62
Short Circuit Current-Isc (A)	10.95	11.03	11.11	11.18	11.26
Maximum Power Voltage-Vmpp (V)	38.40	38.50	38.60	38.70	38.80
Maximum Power Current-Imp (A)	10.14	10.21	10.29	10.35	10.43

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2285x1134x30/35/40mm; 2274x1134x30/35/40mm; 2266x1134x30/35/40mm 2256x1132x30/35/40mm; 2250x1132x30/35/40mm
Weight	30.0~35.0kg approx
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel 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	-0.35%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

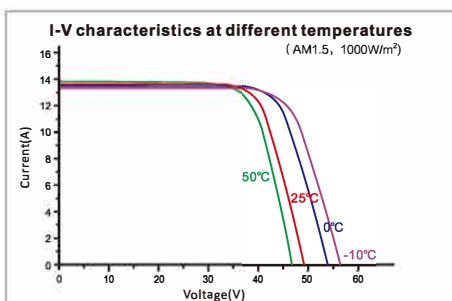
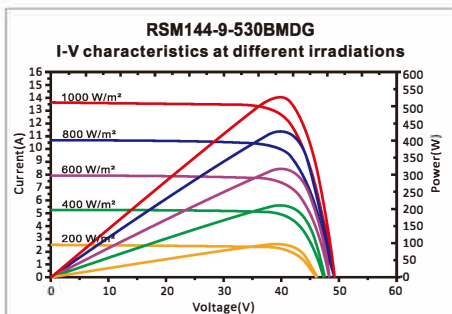
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	700
Number of modules per pallet	35
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2350×1130×1275
Box gross weight[kg]	1170

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

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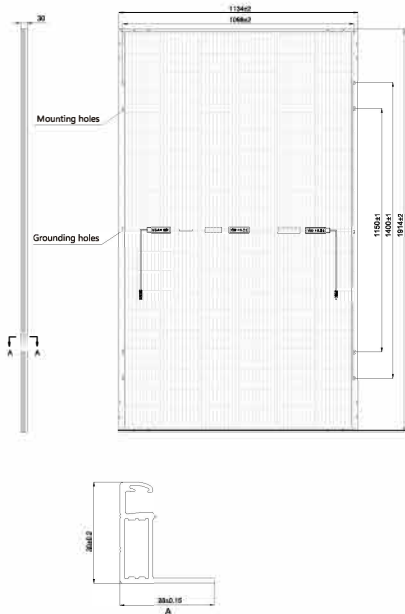
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Website: www.risenenergy.com

REM144-BMDG-10BB-EN-H2-5-2020-CEC-AU

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM120-9-440BMDG	RSM120-9-445BMDG	RSM120-9-450BMDG	RSM120-9-455BMDG	RSM120-9-460BMDG
Rated Power in Watts-Pmax(Wp)	440	445	450	455	460
Open Circuit Voltage-Voc(V)	40.40	40.50	40.60	40.70	40.80
Short Circuit Current-Isc(A)	13.57	13.68	13.78	13.88	13.98
Maximum Power Voltage-Vmpp(V)	34.79	34.91	35.05	35.15	35.25
Maximum Power Current-Imp(A)	12.65	12.75	12.85	12.95	13.05
Module Efficiency (%) *	20.3	20.5	20.7	21.0	21.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air MassAM1.5 according to EN 60904-3.

Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number

Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%

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

15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	484	490	495	500	506
Total Equivalent power -Pmax (Wp)	484	490	495	500	506
Open Circuit Voltage-Voc(V)	40.40	40.50	40.60	40.70	40.80
Short Circuit Current-Isc(A)	14.93	15.05	15.16	15.27	15.38
Maximum Power Voltage-Vmpp(V)	34.79	34.91	35.05	35.15	35.25
Maximum Power Current-Imp(A)	13.92	14.03	14.14	14.25	14.36

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 Number	RSM120-9-440BMDG	RSM120-9-445BMDG	RSM120-9-450BMDG	RSM120-9-455BMDG	RSM120-9-460BMDG
Maximum Power-Pmax (Wp)	332.1	335.7	339.4	343.1	346.8
Open Circuit Voltage-Voc (V)	37.98	38.07	38.16	38.26	38.35
Short Circuit Current-Isc (A)	10.99	11.08	11.16	11.24	11.32
Maximum Power Voltage-Vmpp (V)	32.41	32.51	32.61	32.71	32.81
Maximum Power Current-Imp (A)	10.25	10.33	10.41	10.49	10.57

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120 cells (6×10+6×10)
Module dimensions	1884x1132x30/35/40mm; 1889x1132x30/35/40mm; 1914x1134x30/35/40mm
Weight	24.0~29.0kg approx
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel 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	-0.35%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

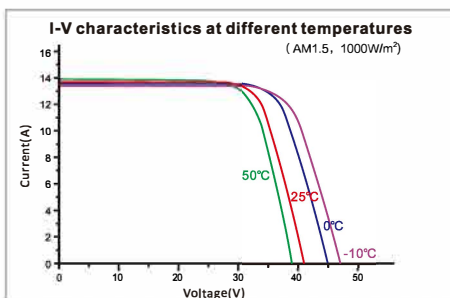
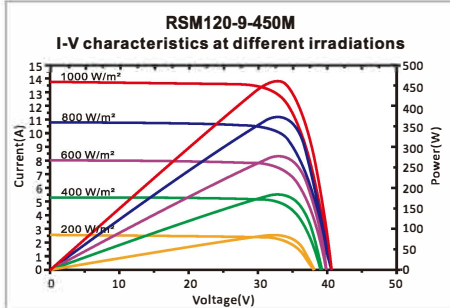
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	840
Number of modules per pallet	35
Number of pallets per container	24
Packaging box dimensions (LxWxH) in mm	1960×1115×1245
Box gross weight[kg]	995

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

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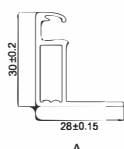
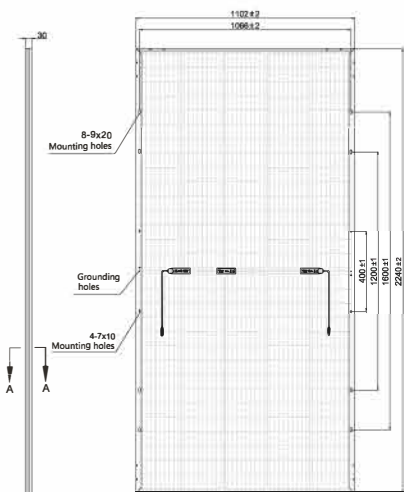
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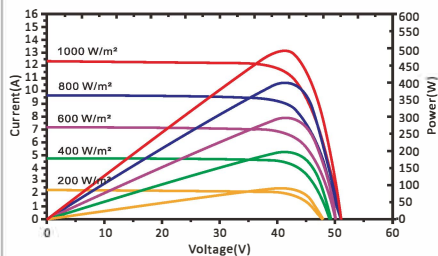
Dimensions of PV Module

Unit: mm



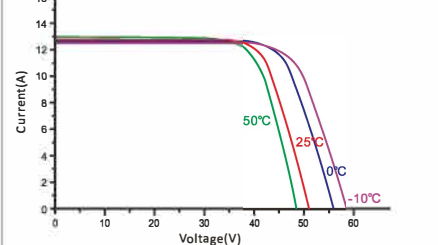
RSM150-8-495BMDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL DATA (STC)

Model Number	RSM150-8-495BMDG	RSM150-8-500BMDG	RSM150-8-505BMDG	RSM150-8-510BMDG
Rated Power in Watts-Pmax(Wp)	495	500	505	510
Open Circuit Voltage-Voc(V)	50.79	51.01	51.23	51.45
Short Circuit Current-Isc(A)	12.39	12.46	12.53	12.60
Maximum Power Voltage-Vmpp(V)	42.66	42.88	43.10	43.32
Maximum Power Current-Impp(A)	11.62	11.68	11.74	11.80
Module Efficiency (%) *	20.1	20.3	20.5	20.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

Electrical characteristics with 10% rear side power gain

	545	550	556	561
Total Equivalent power -Pmax (Wp)	545	550	556	561
Open Circuit Voltage-Voc(V)	50.79	51.01	51.23	51.45
Short Circuit Current-Isc(A)	13.63	13.71	13.78	13.86
Maximum Power Voltage-Vmpp(V)	42.66	42.88	43.10	43.32
Maximum Power Current-Impp(A)	12.78	12.85	12.91	12.98

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 Number	RSM150-8-495BMDG	RSM150-8-500BMDG	RSM150-8-505BMDG	RSM150-8-510BMDG
Maximum Power-Pmax (Wp)	375.4	379.3	383.2	387.1
Open Circuit Voltage-Voc (V)	47.23	47.44	47.64	47.85
Short Circuit Current-Isc (A)	10.16	10.22	10.27	10.33
Maximum Power Voltage-Vmpp (V)	39.59	39.79	40.00	40.20
Maximum Power Current-Impp (A)	9.48	9.53	9.58	9.63

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	150 cells (5×15+5×15)
Module dimensions	2240×1102×30/35/40 mm
Weight	32.0 ~34.0kg approx
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinsel 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	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	700	140
Number of modules per pallet	35	35
Number of pallets per container	20	4
Packaging box dimensions (LxWxH) in mm	2305×1130×1240	2305×1130×1240
Box gross weight[kg]	1160	1160

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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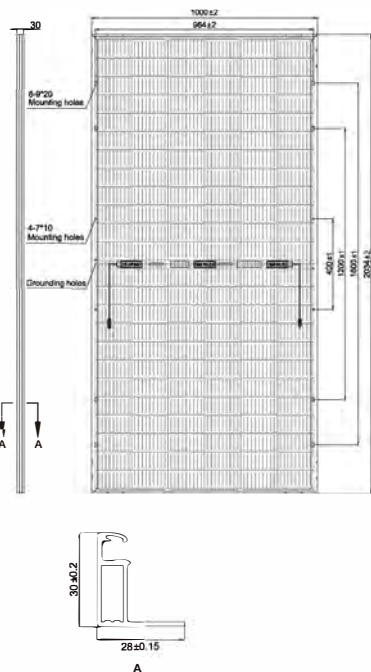
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 Website: www.risenenergy.com
 REM150-BMDG-9BB-EN-H2-2-2020

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM144-6-410BMDG	RSM144-6-415BMDG
Rated Power in Watts-Pmax(Wp)	410	415
Open Circuit Voltage-Voc(V)	48.90	49.00
Short Circuit Current-Isc(A)	10.70	10.80
Maximum Power Voltage-Vmpp(V)	40.65	40.70
Maximum Power Current-Impp(A)	10.10	10.20
Module Efficiency (%) *	20.2	20.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

ELECTRICAL DATA (NMOT)

Model Number	RSM144-6-410BMDG	RSM144-6-415BMDG
Maximum Power-Pmax (Wp)	306.9	309.2
Open Circuit Voltage-Voc (V)	44.99	45.63
Short Circuit Current-Isc (A)	8.77	8.80
Maximum Power Voltage-Vmpp (V)	37.24	37.30
Maximum Power Current-Impp (A)	8.24	8.29

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

MECHANICAL DATA

Solar cells	Monocrystalline, 9BB
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2034×1000×30mm
Weight	27kg
Substrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+) 270mm, Negative(-) 270mm
Connector	Risen Twinsel PV-SY02, IP68

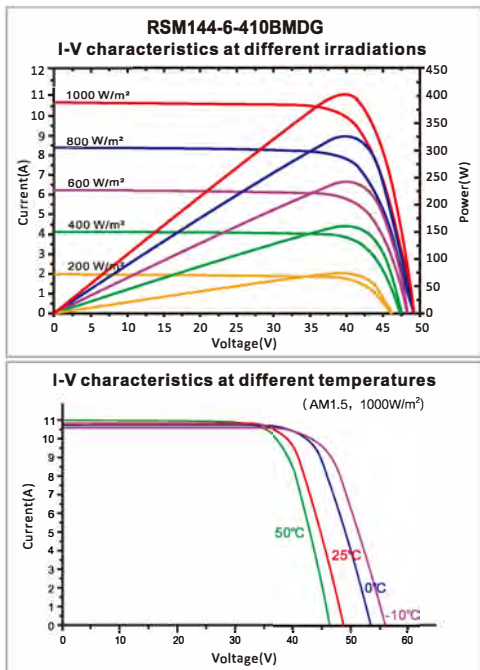
TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	770	350
Number of modules per pallet	35	35
Number of pallets per container	22	10
Packaging box dimensions (LxWxH) in mm	2100×1130×1135	2100×1130×1135
Box gross weight[kg]	1000	1000

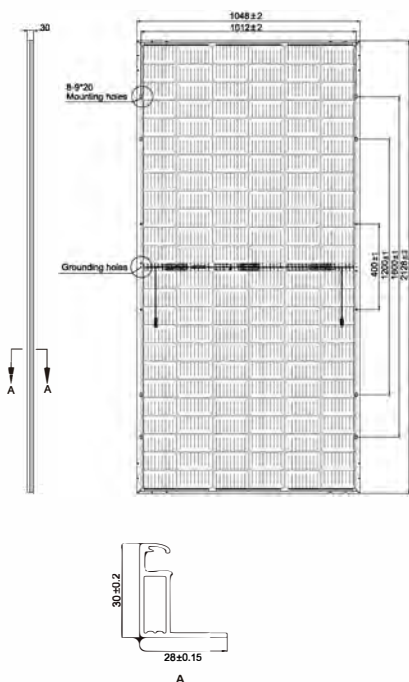
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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 Website: www.risenenergy.com
 REM144-BMDG-9BB-EN-H1-1-2020

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM144-7-435BMDG	RSM144-7-440BMDG	RSM144-7-445BMDG	RSM144-7-450BMDG	RSM144-7-455BMDG
Rated Power in Watts-Pmax(Wp)	435	440	445	450	455
Open Circuit Voltage-Voc(V)	49.40	49.50	49.60	49.70	49.80
Short Circuit Current-Isc(A)	11.20	11.30	11.40	11.50	11.60
Maximum Power Voltage-Vmpp(V)	41.05	41.13	41.25	41.30	41.40
Maximum Power Current-Imp(A)	10.60	10.70	10.80	10.90	11.00
Module Efficiency (%) *	19.5	19.7	20.0	20.2	20.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Bifacial factor: 70%±5 * Module Efficiency (%): Round-off to the nearest number
 Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3%
 15 Years Limited Product Warranty; 30 Years Limited Power Warranty

ELECTRICAL DATA (NMOT)

Model Number	RSM144-7-435BMDG	RSM144-7-440BMDG	RSM144-7-445BMDG	RSM144-7-450BMDG	RSM144-7-455BMDG
Maximum Power-Pmax (Wp)	325.2	329.6	333.9	338.2	342.5
Open Circuit Voltage-Voc (V)	45.45	46.18	46.36	46.43	46.61
Short Circuit Current-Isc (A)	9.18	9.26	9.35	9.45	9.54
Maximum Power Voltage-Vmpp (V)	37.60	37.80	37.90	38.00	38.10
Maximum Power Current-Imp (A)	8.65	8.72	8.81	8.90	8.99

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

MECHANICAL DATA

Solar cells	Monocrystalline 166×83mm
Cell configuration	144 cells (6×12×6×12)
Module dimensions	2128×1048×30mm
Weight	29.0kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+) 270mm, Negative(-) 270mm
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

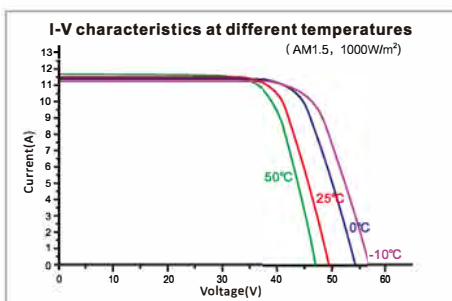
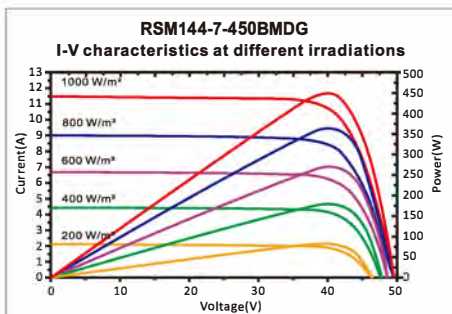
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Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS A (IEC)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	700	175
Number of modules per pallet	35	35
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2195×1130×1185	2195×1130×1185
Box gross weight[kg]	1080	1080

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THE POWER OF RISING VALUE



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