Red mundial de servicios

- Sedes corporativas
- Centro de Servicios de Ventas
- Centro de producción

risen

FOLLETO DEL PRODUCTO

Risen Energy Co., Ltd

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E-Mail: marketing@risenenergy.com

Sitio web: www.risenenergy.com

Note: The data in this manual is updated until the end of Abril 2024, and Risen Energy reserves the right to change the manual without prior notice.

RS-PB-2024V2

www.risenenergy.com

ACERCA DE
RISEN ENERGY

Como empresa líder en nuevas energías a nivel global, Risen Energy está a la cabeza de la revolución energética mundial con células y módulos solares, centrales eléctricas fotovoltaicas, sistemas de almacenamiento de energía y más. Con sus soluciones ecológicas y servicios integrados en nuevas energías, la empresa ayuda a clientes de todo el mundo a alcanzar sus objetivos de "carbono bajo" o "carbono cero", contribuyendo así a la transición de la sociedad hacia una era libre de carbono.

Risen Energy, empresa nacional de tecnología de punta, cuenta con varias tecnologías centrales en su unidad principal de negocios y ha establecido un laboratorio fotovoltaico (PV) nacional acreditado por la CNAS internacional. Este laboratorio tiene la capacidad para realizar pruebas en 54 proyectos, según estándares internacionales como IEC 61215 y UL 1703. El establecimiento del Instituto de Investigación Fotovoltaica en noviembre de 2023 significó un avance importante en el desarrollo estratégico de la empresa. Tiene como responsabilidad principal la investigación de tecnologías integradas, el desarrollo e iteración de productos y la gestión técnica. Además, asume el compromiso de brindar las soluciones de PV más bajas en carbono y crear un centro global de I+D e innovación de PV eficiente, con el objetivo de fortalecer la asistencia técnica de la empresa y consolidar su posición competitiva mediante sus productos y tecnología. La empresa aprovechará este instituto como plataforma de intercambio y cooperación global, para lograr el reconocimiento y la aplicación universal de las tecnologías de PV y así sentar bases sólidas que permitan alcanzar su visión - "Risen en todo el mundo y para siempre".

Visión
Creamos una nueva vida para la humanidad a través de la nueva energía verde.

Valores
Proporcionamos valor mediante un servicio centrado en el cliente.

Misión
Mejorar continuamente el patrón energético con la innovación tecnológica y la calidad de la vida humana.

Capacidad De La Empresa

Tier 1
Fabricante de módulos fotovoltaicos

Clasificación A
Clasificación para financiamiento

15000+
Empleados mundiales

48GW+
Capacidad de producción de módulos en 2024

86GW+
Volumen acumulado de envíos (a finales de Q1 2023)

6.75+
Inversión en I+D en 2023 (100 millones de RMB)

15000+
Clientes en todo el mundo

2059
Personal de I+D (número de personas)

Certificaciones profesionales

Certificaciones de sistemas de gestión integrada

IEC61215: 2016; norma IEC61730-1/-2:2016

ISO 9001: 2015 para los Sistemas de gestión de la calidad

ISO 14001: 2015 para los Sistemas de gestión del medio ambiente

ISO 45001: 2018 para los Sistemas de gestión de la seguridad y la salud en el trabajo

ISO 14064 para los Gases de efecto invernadero

ISO9001
ISO14001
ISO45001
IEC62941

Italia EPD

Certificación de Certisolis

3X IEC

La calidad es lo más importante

PQP

EUPD

Garantía del producto

Series de productos	Garantía del producto	Garantía de potencia	Degradación en el primer año	Degradación anual
Hyper-ion™	15 años	30 años	1%	0.3%
TOPCon	15 años para los productos convencionales 25 años para los productos totalmente negros	30 años	1%	0.4%
TITAN	12 años para los productos convencionales 25 años para los productos totalmente negros	25 años para monofacial 30 años para bifacial	2%	0.55% para monofacial 0.45% para bifacial

TITAN

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

ISO9001
ISO14001
ISO45001
IEC62941

★ As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

RISEN ENERGY CO., LTD.

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

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risen

RSM130-8-430M-450M

130 CELL
Mono PERC Module

430-450Wp
Power Output Range

1500VDC
Maximum System Voltage

21.7%
Maximum Efficiency

KEY SALIENT FEATURES

- Bloomberg TIER 1 — Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- 12 years — Industry leading 12 years product warranty
- Excellent low irradiance performance
- PID — Excellent PID resistance
- Positive power tolerance of 0~+3%
- 2 EL — Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification
  - IEC61215:2016; IEC61730-1/-2:2016;
  - ISO 9001:2015 Quality Management System
  - ISO 14001:2015 Environmental Management System
  - ISO 45001:2018 Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty

★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

THE POWER OF RISING VALUE

Dimensions of PV Module Unit: mm

RSM130-8-440M
I-V characteristics at different irradiations

I-V characteristics at different temperatures

Our Partners:

REM130-M-9BB-EN-H1-1-2023

ELECTRICAL DATA (STC)

Model Number	RSM130-8-430M	RSM130-8-435M	RSM130-8-440M	RSM130-8-445M	RSM130-8-450M
Rated Power in Watts-Pmax(Wp)	**430**	**435**	**440**	**445**	**450**
Open Circuit Voltage-Voc(V)	44.36	44.61	44.85	45.09	45.33
Short Circuit Current-Isc(A)	12.35	12.42	12.50	12.57	12.65
Maximum Power Voltage-Vmpp(V)	36.94	37.14	37.34	37.54	37.74
Maximum Power Current-Impp(A)	11.65	11.72	11.79	11.86	11.93
Module Efficiency (%) ★	20.7	21.0	21.2	21.4	21.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
★ Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

Model Number	RSM130-8-430M	RSM130-8-435M	RSM130-8-440M	RSM130-8-445M	RSM130-8-450M
Maximum Power-Pmax (Wp)	325.9	329.6	333.4	337.1	340.9
Open Circuit Voltage-Voc (V)	41.26	41.48	41.71	41.93	42.15
Short Circuit Current-Isc (A)	10.13	10.19	10.25	10.31	10.37
Maximum Power Voltage-Vmpp (V)	34.28	34.47	34.65	34.84	35.02
Maximum Power Current-Impp (A)	9.51	9.56	9.62	9.68	9.73

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	130 cells (5×13+5×13)
Module dimensions	1894×1096×30mm
Weight	22.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy , Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² , Positive(+)350mm, Negative(-)230mm (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
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

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	1910×1110×1236	1910×1110×1236
Box gross weight[kg]	850	850

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

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THE POWER OF RISING VALUE

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

RSM144-9-540M-560M

144 CELL
Mono PERC Module

540-560Wp
Power Output Range

1500VDC
Maximum System Voltage

21.7%
Maximum Efficiency

KEY SALIENT FEATURES

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive power tolerance of 0~+3%
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification
  - IEC61215:2016; IEC61730-1/-2:2016;
  - ISO 9001:2015 Quality Management System
  - ISO 14001:2015 Environmental Management System
  - ISO 45001:2018 Occupational Health and Safety Management System

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LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty

★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

THE POWER OF RISING VALUE

Dimensions of PV Module

Unit: mm

RSM144-9-550M
I-V characteristics at different irradiations

I-V characteristics at different temperatures

Our Partners:

REM144-M-10BB-EN-H1-1-2023

ELECTRICAL DATA (STC)

Model Number	RSM144-9-540M	RSM144-9-545M	RSM144-9-550M	RSM144-9-555M	RSM144-9-560M
Rated Power in Watts-Pmax(Wp)	**540**	**545**	**550**	**555**	**560**
Open Circuit Voltage-Voc(V)	49.60	49.70	49.80	49.91	50.01
Short Circuit Current-Isc(A)	13.74	13.84	13.94	14.04	14.14
Maximum Power Voltage-Vmpp(V)	41.99	42.11	42.20	42.29	42.38
Maximum Power Current-Impp(A)	12.87	12.96	13.04	13.13	13.22
Module Efficiency (%) ★	20.9	21.1	21.3	21.5	21.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
★ Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

Model Number	RSM144-9-540M	RSM144-9-545M	RSM144-9-550M	RSM144-9-555M	RSM144-9-560M
Maximum Power-Pmax (Wp)	402.0	405.8	409.4	413.3	417.1
Open Circuit Voltage-Voc (V)	46.77	46.87	46.96	47.07	47.17
Short Circuit Current-Isc (A)	11.27	11.35	11.43	11.51	11.59
Maximum Power Voltage-Vmpp (V)	38.80	38.90	39.00	39.10	39.20
Maximum Power Current-Impp (A)	10.36	10.43	10.50	10.57	10.64

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	2279×1134×35mm
Weight	27.8kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.275%/°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
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	620	155
Number of modules per pallet	31	31
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2320×1130×1260	2320×1130×1260
Box gross weight[kg]	908	908

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THE POWER OF RISING VALUE

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n-type TOPCon

HIGH PERFORMANCE BIFACIAL MODULE

RSM144-10-590-615BNDG

The module picture is for reference only

590-615 Wp
Power Output Range

22.8 %
Maximum Efficiency

0~+3 %
Positive power tolerance

1500 VDC
Maximum System Voltage

KEY FEATURES

- Excellent power generation
- Excellent anti-LID & anti-PID performance
- Excellent temperature coefficient (Pmax): -0.29%/°C
- Excellent weak-light performance
- Excellent warranty assurance

ISO9001
ISO14001
ISO45001
IEC62941

* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years

* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module

Unit: mm

RSM144-10-605BNDG

I-V characteristics at different irradiations

I-V characteristics at different temperatures

(AM1.5, 1000W/m²)

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	

ELECTRICAL DATA (STC)

Model Type	RSM144-10-590-615BNDG					
Rated Power in Watts-Pmax(Wp)	**590**	**595**	**600**	**605**	**610**	**615**
Open Circuit Voltage-Voc(V)	51.67	51.86	52.05	52.24	52.43	52.62
Short Circuit Current-Isc(A)	14.55	14.61	14.66	14.71	14.77	14.82
Maximum Power Voltage-Vmpp(V)	42.94	43.10	43.25	43.40	43.56	43.72
Maximum Power Current-Impp(A)	13.76	13.83	13.89	13.95	14.01	14.07
Module Efficiency (%) ★	21.8	22.0	22.2	22.4	22.6	22.8

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

Bifacial factor: 80±10(%) ★Module Efficiency (%): Rounding to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	649	655	660	666	671	677
Open Circuit Voltage-Voc(V)	51.67	51.86	52.05	52.24	52.43	52.62
Short Circuit Current-Isc(A)	16.01	16.07	16.13	16.18	16.25	16.30
Maximum Power Voltage-Vmpp(V)	42.94	43.10	43.25	43.40	43.56	43.72
Maximum Power Current-Impp(A)	15.14	15.21	15.28	15.35	15.41	15.47

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	RSM144-10-590-615BNDG					
Maximum Power-Pmax (Wp)	447.4	451.3	454.9	458.5	462.1	465.6
Open Circuit Voltage-Voc (V)	48.05	48.23	48.41	48.58	48.76	48.94
Short Circuit Current-Isc (A)	11.93	11.98	12.02	12.06	12.11	12.15
Maximum Power Voltage-Vmpp (V)	39.85	39.99	40.13	40.28	40.42	40.57
Maximum Power Current-Impp (A)	11.23	11.28	11.33	11.38	11.43	11.48

NMOT: Irradiance at 800 W/m², 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, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened 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), or customized length
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	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

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THE POWER OF RISING VALUE

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Version: REM144-BNDG-16BB-EN-H1-1-2024

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Hyper-ion™

Heterojunction Hyper-ion Series Bifacial Module

RSM132-8-690-715BHDG

Hyper-link Interconnection

Patented Technology

690-715 Wp

Power Output Range

23.0%

Higher Efficiency

0~+3%

Positive Power Tolerance

- No B-O caused LID
- Ultra-high bifacial factor
- Ultra-high power generation,ultra-low carbon emission
- Most stable power temperature coefficient
- 0BB Lead technology of metallization process
- Excellentanti-LID &anti-PID performance

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LINEAR PERFORMANCE WARRANTY

15 years product warranty / 30 years linear power warranty

0.3% Annual Degradation over 30 years

*Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module

RSM132-8-705BHDG

I-V characteristics at different irradiations

I-V characteristics at different temperatures

ELECTRICAL DATA (STC)

Model Type	RSM132-8-690-715BHDG					
Rated Power in Watts-Pmax(Wp)	690	695	700	705	710	715
Open Circuit Voltage-Voc(V)	49.65	49.74	49.83	49.92	50.01	50.09
Short Circuit Current-Isc(A)	17.66	17.74	17.82	17.91	18.00	18.10
Maximum Power Voltage-Vmpp(V)	41.63	41.71	41.78	41.86	41.93	42.00
Maximum Power Current-Impp(A)	16.60	16.68	16.77	16.86	16.95	17.05
Module Efficiency (%) *	22.2	22.4	22.5	22.7	22.9	23.0

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor: 85±10(%) * Module Efficiency (%): Rounding to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	759	765	770	776	781	787
Open Circuit Voltage-Voc(V)	49.65	49.74	49.83	49.92	50.01	50.09
Short Circuit Current-Isc(A)	19.43	19.51	19.60	19.70	19.80	19.91
Maximum Power Voltage-Vmpp(V)	41.63	41.71	41.78	41.86	41.93	42.00
Maximum Power Current-Impp(A)	18.26	18.35	18.44	18.55	18.65	18.76

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	RSM132-8-690-715BHDG					
Maximum Power-Pmax (Wp)	527.2	530.9	534.5	538.5	542.3	546.2
Open Circuit Voltage-Voc (V)	46.52	46.61	46.69	46.78	46.86	46.93
Short Circuit Current-Isc (A)	14.48	14.55	14.61	14.68	14.76	14.84
Maximum Power Voltage-Vmpp (V)	38.93	39.00	39.07	39.14	39.21	39.27
Maximum Power Current-Impp (A)	13.54	13.61	13.68	13.76	13.83	13.91

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

MECHANICAL DATA

Solar cells	*n*-type HJT
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×33mm
Weight	37.5kg
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm (Connector Included), or customized length
Connector	Risen Twinsel PV-SY02, IP68

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	594
Number of modules per pallet	33
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1125×2520
Box gross weight[kg]	1289

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	43°C±2°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

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THE POWER OF RISING VALUE

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Version: REM132-BHDG-24BB-EN-H2-4-2023