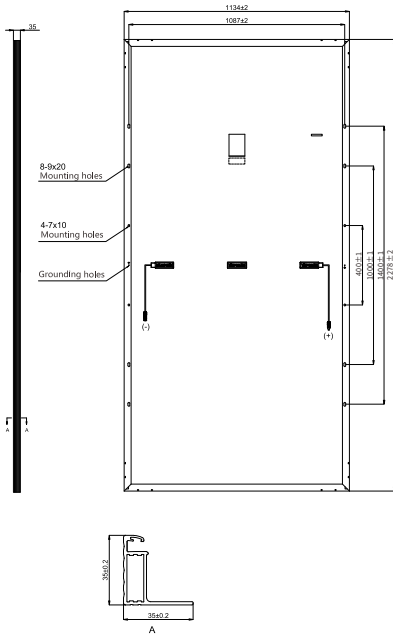


Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Type	RSM144-9-545M	RSM144-9-550M	RSM144-9-555M
Rated Power in Watts-Pmax(Wp)	545	550	555
Open Circuit Voltage-Voc(V)	49.70	49.80	49.91
Short Circuit Current-Isc(A)	13.84	13.94	14.04
Maximum Power Voltage-Vmpp(V)	42.11	42.20	42.29
Maximum Power Current-Impp(A)	12.96	13.04	13.13
Module Efficiency (%) *	21.1	21.3	21.5

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  
 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; 25 Years Limited Power Warranty  
 The first year degradation:2%,annual degradation:0.55%,power retention rate within 25 years:84.8%

ELECTRICAL DATA (NMOT)

Model Type	RSM144-9-545M	RSM144-9-550M	RSM144-9-555M
Maximum Power-Pmax (Wp)	405.8	409.4	413.3
Open Circuit Voltage-Voc (V)	46.87	46.96	47.07
Short Circuit Current-Isc (A)	11.35	11.43	11.51
Maximum Power Voltage-Vmpp (V)	38.90	39.00	39.10
Maximum Power Current-Impp (A)	10.43	10.50	10.57

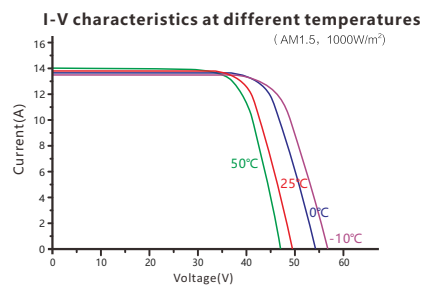
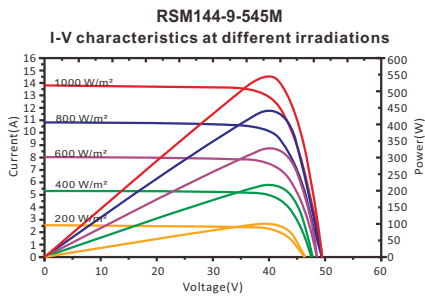
NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	144 cells (6×12×6×12)
Module dimensions	2278×1134×35mm
Weight	27.8kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	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	-0.275%/°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 UI790	CLASS C
Max Series Fuse Rating	25A



PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	620
Number of modules per pallet	31
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2325×1150×1250
Box gross weight [kg]	910



RISEN ENERGY CO., LTD.

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC

Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risenenergy.com

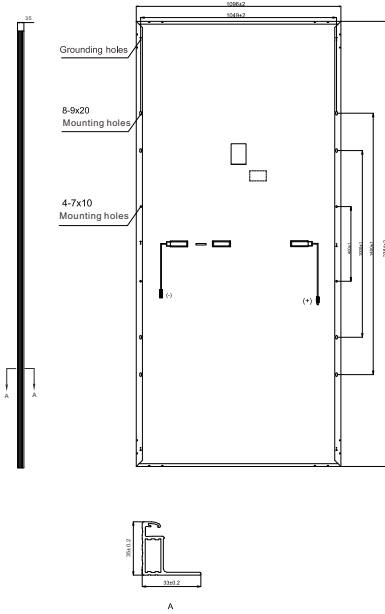
Website: www.risenenergy.com

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

©2024 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice.

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.

**Dimensions of PV Module** Unit: mm



**ELECTRICAL DATA (STC)**

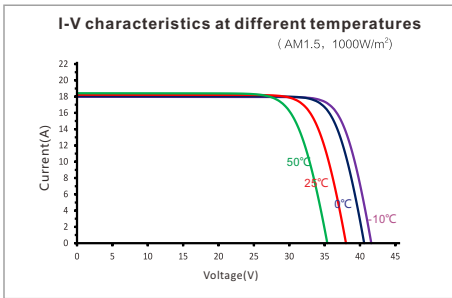
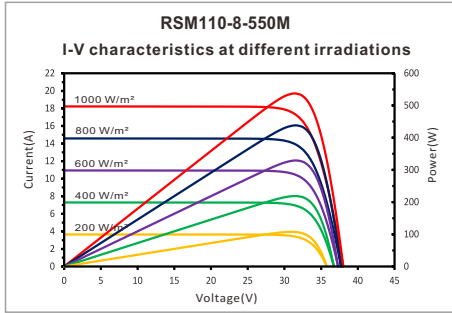
Model Type	RSM110-8-545M	RSM110-8-550M	RSM110-8-555M
Rated Power in Watts-Pmax(Wp)	545	550	555
Open Circuit Voltage-Voc(V)	38.02	38.24	38.46
Short Circuit Current-Isc(A)	18.23	18.28	18.33
Maximum Power Voltage-Vmpp(V)	31.66	31.86	32.06
Maximum Power Current-Impp(A)	17.22	17.27	17.32
Module Efficiency (%) *	20.9	21.0	21.2

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; 25 Years Limited Power Warranty  
 The first year degradation:2%,annual degradation:0.55%,power retention rate within 25 years:84.8%

**ELECTRICAL DATA (NMOT)**

Model Type	RSM110-8-545M	RSM110-8-550M	RSM110-8-555M
Maximum Power-Pmax (Wp)	412.8	416.7	420.5
Open Circuit Voltage-Voc (V)	35.36	35.56	35.77
Short Circuit Current-Isc (A)	14.95	14.99	15.03
Maximum Power Voltage-Vmpp (V)	29.38	29.57	29.75
Maximum Power Current-Impp (A)	14.05	14.09	14.13

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



**MECHANICAL DATA**

Solar cells	Monocrystalline
Cell configuration	110 cells (5×11+5×11)
Module dimensions	2384×1096×35mm
Weight	28.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	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)
Number of modules per container	720
Number of modules per pallet	36
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2395×1120×1235
Box gross weight [kg]	1072

**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
Fire Class According to UL790	CLASS C
Max Series Fuse Rating	30A



RISEN ENERGY CO., LTD.

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC

Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risenenergy.com

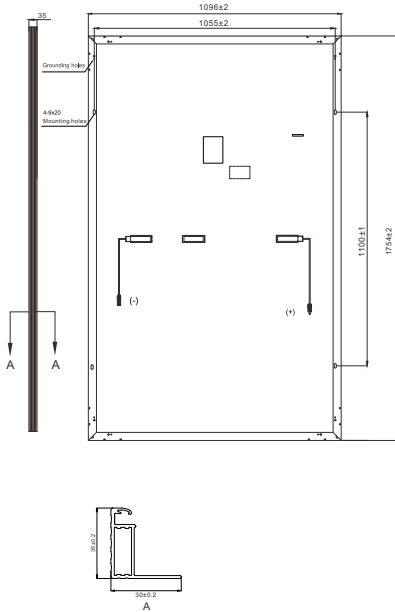
Website: www.risenenergy.com

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

©2024 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice.

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.

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Type	RSM40-8-415M
Rated Power in Watts-Pmax(Wp)	415
Open Circuit Voltage-Voc(V)	42.20
Short Circuit Current-Isc(A)	12.53
Maximum Power Voltage-Vmpp(V)	35.14
Maximum Power Current-Impp(A)	11.82
Module Efficiency (%) *	21.6

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%  
 25 Years Limited Product Warranty; 25 Years Limited Power Warranty  
 The first year degradation:2%,annual degradation:0.55%,power retention rate within 25 years:84.8%

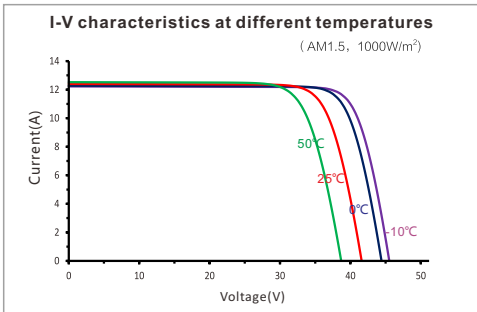
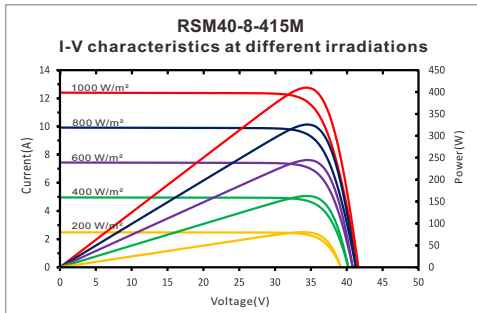
ELECTRICAL DATA (NMOT)

Model Type	RSM40-8-415M
Maximum Power-Pmax (Wp)	314.5
Open Circuit Voltage-Voc (V)	39.25
Short Circuit Current-Isc (A)	10.27
Maximum Power Voltage-Vmpp (V)	32.61
Maximum Power Current-Impp (A)	9.65

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120cells (5×12+5×12)
Module dimensions	1754×1096×35mm
Weight	21kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	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	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	20A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	936
Number of modules per pallet	36
Number of pallets per container	26
Packaging box dimensions (LxWxH) in mm	1770×1120×1236
Box gross weight [kg]	800



RISEN ENERGY CO., LTD.

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC

Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risenenergy.com

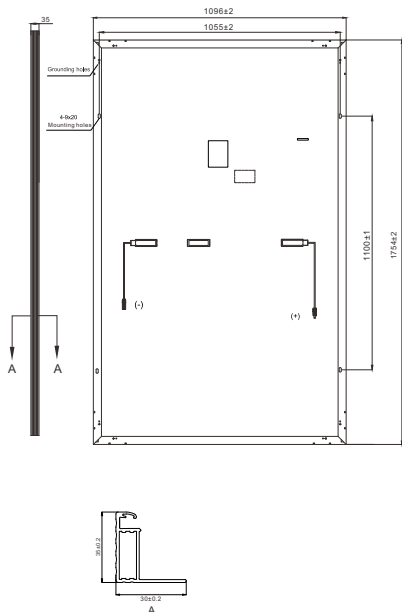
Website: www.risenenergy.com

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

©2024 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice.

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.

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Type	RSM40-8-390M
Rated Power in Watts-Pmax(Wp)	390
Open Circuit Voltage-Voc(V)	40.69
Short Circuit Current-Isc(A)	12.21
Maximum Power Voltage-Vmpp(V)	33.88
Maximum Power Current-Impp(A)	11.52
Module Efficiency (%) *	20.3

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%  
 25 Years Limited Product Warranty; 25 Years Limited Power Warranty  
 The first year degradation:2%,annual degradation:0.55%,power retention rate within 25 years:84.8%

ELECTRICAL DATA (NMOT)

Model Type	RSM40-8-390M
Maximum Power-Pmax (Wp)	295.6
Open Circuit Voltage-Voc (V)	37.84
Short Circuit Current-Isc (A)	10.01
Maximum Power Voltage-Vmpp (V)	31.44
Maximum Power Current-Impp (A)	9.40

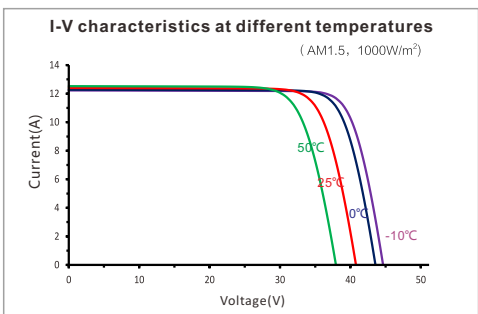
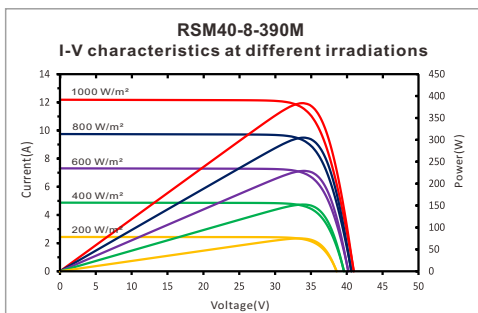
NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120cells (5 × 12+5 × 12)
Module dimensions	1754 × 1096 × 35mm
Weight	21kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	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	0.04%/°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	20A



PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	936
Number of modules per pallet	36
Number of pallets per container	26
Packaging box dimensions (LxWxH) in mm	1770 × 1120 × 1236
Box gross weight [kg]	800



RISEN ENERGY CO., LTD.

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC

Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risenenergy.com

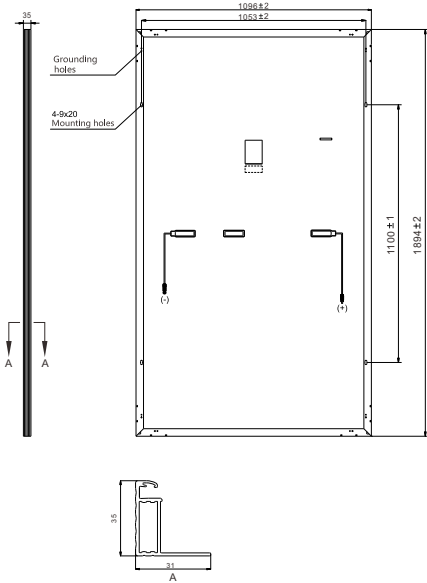
Website: www.risenenergy.com

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

©2024 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice.

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.

**Dimensions of PV Module** Unit: mm



**ELECTRICAL DATA (STC)**

Model Type	RSM130-8-440M
Rated Power in Watts-Pmax(Wp)	440
Open Circuit Voltage-Voc(V)	44.85
Short Circuit Current-Isc(A)	12.50
Maximum Power Voltage-Vmpp(V)	37.34
Maximum Power Current-Impp(A)	11.79
Module Efficiency (%) *	21.2

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%  
 25 Years Limited Product Warranty; 25 Years Limited Power Warranty  
 The first year degradation:2%,annual degradation:0.55%,power retention rate within 25 years:84.8%

**ELECTRICAL DATA (NMOT)**

Model Type	RSM130-8-440M
Maximum Power-Pmax (Wp)	333.4
Open Circuit Voltage-Voc (V)	41.71
Short Circuit Current-Isc (A)	10.25
Maximum Power Voltage-Vmpp (V)	34.65
Maximum Power Current-Impp (A)	9.62

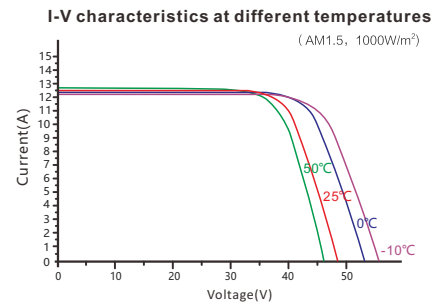
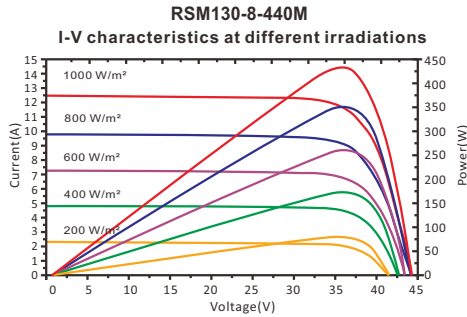
NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

**MECHANICAL DATA**

Solar cells	Monocrystalline
Cell configuration	130cells (5×13+5×13)
Module dimensions	1894×1096×35mm
Weight	22.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	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	0.04%/°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	20A



**PACKAGING CONFIGURATION**

	40ft(HQ)
Number of modules per container	864
Number of modules per pallet	36
Number of pallets per container	24
Packaging box dimensions (LxWxH) in mm	1910×1110×1236
Box gross weight [kg]	850



**RISEN ENERGY CO., LTD.**  
 Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC  
 Tel: +86-574-59953239  
 Fax: +86-574-59953599  
 E-mail: marketing@risenenergy.com  
 Website: www.risenenergy.com

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
 ©2024 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice.  
 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.