



HIGH PERFORMANCE
MONOCRYSTALLINE PERC MODULE



RSM132-8-650M

132 CELL Mono PERC Module	650Wp Power Output Range
1500VDC Maximum System Voltage	21.6% 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

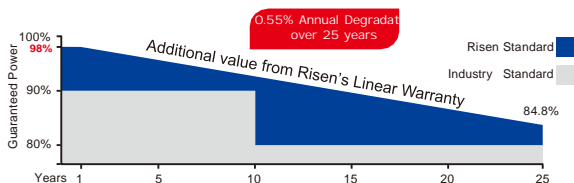


As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.



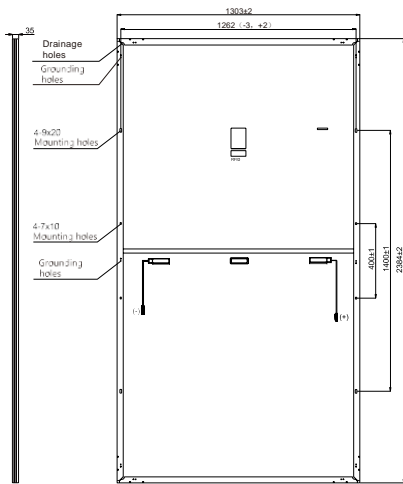
LINEAR PERFORMANCE WARRANTY

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

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM132-8-645M	RSM132-8-650M	RSM132-8-655M	RSM132-8-660M	RSM132-8-665M	RSM132-8-670M
Rated Power in Watts-Pmax(Wp)	645	650	655	660	665	670
Open Circuit Voltage-Voc(V)	45.15	45.35	45.55	45.75	45.95	46.15
Short Circuit Current-Isc(A)	18.18	18.23	18.28	18.33	18.38	18.43
Maximum Power Voltage-Vmpp(V)	37.58	37.76	37.94	38.12	38.30	38.48
Maximum Power Current-Impp(A)	17.17	17.22	17.27	17.32	17.37	17.42
Module Efficiency (%) *	20.8	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.

* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

Model Number	RSM132-8-645M	RSM132-8-650M	RSM132-8-655M	RSM132-8-660M	RSM132-8-665M	RSM132-8-670M
Maximum Power-Pmax (Wp)	488.6	492.4	496.2	500.0	503.8	507.6
Open Circuit Voltage-Voc (V)	41.99	42.18	42.36	42.55	42.73	42.92
Short Circuit Current-Isc (A)	14.91	14.95	14.99	15.03	15.07	15.11
Maximum Power Voltage-Vmpp (V)	34.87	35.04	35.21	35.38	35.54	35.71
Maximum Power Current-Impp (A)	14.01	14.05	14.09	14.13	14.17	14.21

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	2384×1303×35mm
Weight	35.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	High strength alloy steel
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), 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	30A
Limiting Reverse Current	30A

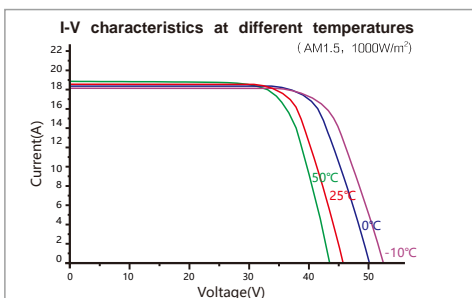
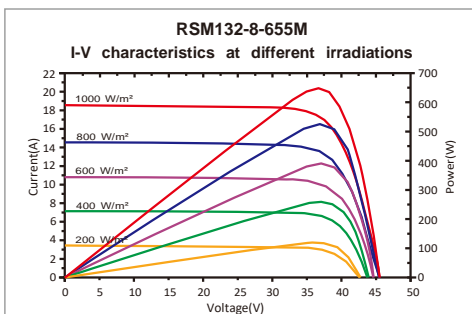
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1120×2520
Box gross weight[kg]	1145

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

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