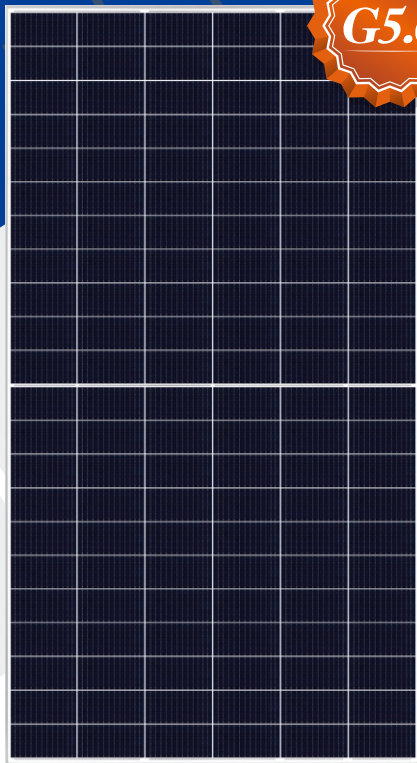




## HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



### 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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Preliminary  
For Global Market

Draft

888

## RSM132-8-640M-660M

### 132 CELL

Mono PERC Module

### 640-660Wp

Power Output Range

### 1500VDC

Maximum System Voltage

### 21.2%

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 tight power tolerance



Dual stage 100% EL Inspection warranting defect-free product



Module Imp binning radically reduces string mismatch losses



Warranted reliability and stringent quality assurances well beyond certified requirements

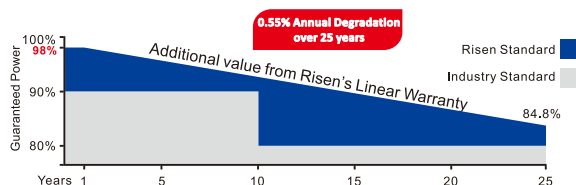


Certified to withstand severe environmental conditions

- ♦ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ♦ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ♦ Excellent mechanical resistance:  
wind load 2400Pa & snow load 5400Pa

## LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty

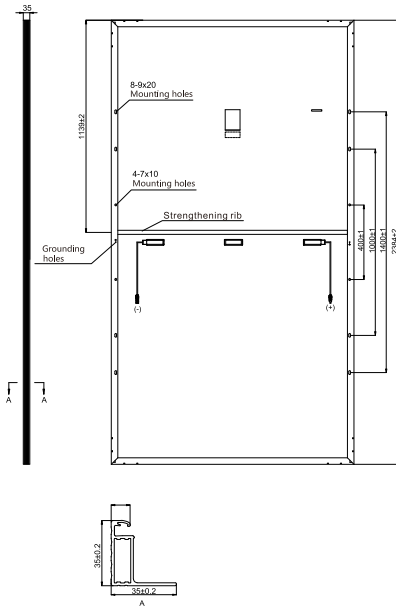


★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

THE POWER OF RISING VALUE

## Dimensions of PV Module

Unit: mm



## ELECTRICAL DATA (STC)

Model Number	RSM132-8-640M	RSM132-8-645M	RSM132-8-650M	RSM132-8-655M	RSM132-8-660M
Rated Power in Watts-Pmax(Wp)	<b>640</b>	<b>645</b>	<b>650</b>	<b>655</b>	<b>660</b>
Open Circuit Voltage-Voc(V)	44.95	45.15	45.35	45.55	45.75
Short Circuit Current-Isc(A)	18.13	18.18	18.23	18.28	18.33
Maximum Power Voltage-Vmpp(V)	37.40	37.58	37.76	37.94	38.12
Maximum Power Current-Impp(A)	17.12	17.17	17.22	17.27	17.32
Module Efficiency (%) ★	20.6	20.8	20.9	21.1	21.2

STC: Irradiance 1000 W/m<sup>2</sup>, 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	RSM132-8-640M	RSM132-8-645M	RSM132-8-650M	RSM132-8-655M	RSM132-8-660M
Maximum Power-Pmax (Wp)	484.9	488.6	492.4	496.2	500.0
Open Circuit Voltage-Voc (V)	41.81	41.99	42.18	42.36	42.55
Short Circuit Current-Isc (A)	14.87	14.91	14.95	14.99	15.03
Maximum Power Voltage-Vmpp (V)	34.71	34.87	35.04	35.21	35.38
Maximum Power Current-Impp (A)	13.97	14.01	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	132 cells (6×11×6×11)
Module dimensions	2384×1303×35mm
Weight	34kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <sup>2</sup> (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
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

## 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]	1105

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

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