## **HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE**

RSM144-6-370M-390M

144 CELL MONOCRYSTALLINE MODULE

370-390Wp power output range

1500VDC MAXIMUM SYSTEM VOLTAGE

19.6% MAXIMUM EFFICIENCY



## **About Risen Energy**

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.

## **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 load 2400Pa & snow load 5400Pa resistance





























## RISEN ENERGY CO., LTD.

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

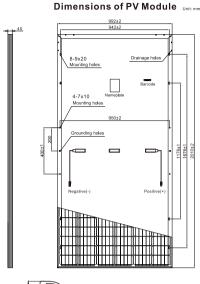
Tel: +86-574-59953239 Fax: +86-574-59953599

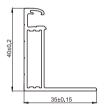
E-mail: marketing@risenenergy.com Website: www.risenenergy.com

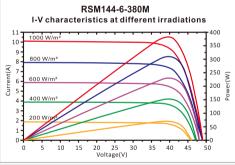


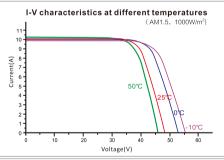














REM144-M-5BB-EN-H2-1-2019

ELECTRICAL DATA (STC)					
Model Number	RSM144-6-370M	RSM144-6-375M	RSM144-6-380M	RSM144-6-385M	RSM144-6-390M
Rated Power in Watts-Pmax(Wp)	370	375	380	385	390
Open Circuit Voltage-Voc(V)	47.60	47.75	48.00	48.15	48.30
Short Circuit Current-Isc(A)	9.90	10.00	10.10	10.20	10.30
Maximum Power Voltage-Vmpp(V)	39.80	39.90	40.05	40.15	40.25
Maximum Power Current-Impp(A)	9.30	9.40	9.50	9.60	9.70
Module Efficiency (%) ★	18.6	18.8	19.1	19.3	19.6

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	RSM144-6-370M	RSM144-6-375M	RSM144-6-380M	RSM144-6-385M	RSM144-6-390M
Maximum Power-Pmax (Wp)	276.7	280.3	284.4	288.1	291.8
Open Circuit Voltage-Voc (V)	43.80	43.90	44.20	44.30	44.40
Short Circuit Current-Isc (A)	8.12	8.20	8.28	8.36	8.45
Maximum Power Voltage-Vmpp (V)	36.50	36.60	36.70	36.80	36.90
Maximum Power Current-Impp (A)	7.59	7.67	7.75	7.83	7.92

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

MECHANICAL DATA		
Solar cells	Monocrystalline, 5BB	
Cell configuration	144 cells (6×12+6×12)	
Module dimensions	2010×992×40mm	
Weight	23kg	
Superstrate	High Transmission, Low Iron, Tempered ARC Glass	
Substrate	White Back-sheet	
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color	
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes	
Cables	4.0mm² (12AWG), Positive(+)270mm, Negative(-)270mm	
Connector	Risen Twinsel PV-SY02, IP68	

TEMPERATURE & MAYIMUM RATINGS			
TEMPERATURE & MAXIMUM RATINGS			
Nominal Module Operating Temperature (NMOT)	45°C±2°C		
Temperature Coefficient of Voc	-0.29%/°C		
Temperature Coefficient of Isc	0.05%/°C		
Temperature Coefficient of Pmax	-0.39%/°C		
Operational Temperature	-40°C~+85°C		
Maximum System Voltage	1500VDC		
Max Series Fuse Rating	20A		
Limiting Reverse Current	20A		

PACKAGING CONFIGURATION				
	40ft	20ft		
Number of modules per container	594	270		
Number of modules per pallet	27	27		
Number of pallets per container	22	10		
Packaging box dimensions (LxWxH) in mm	2040×1130×1130	2040×1130×1130		
Box gross weight[kg]	670	670		

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