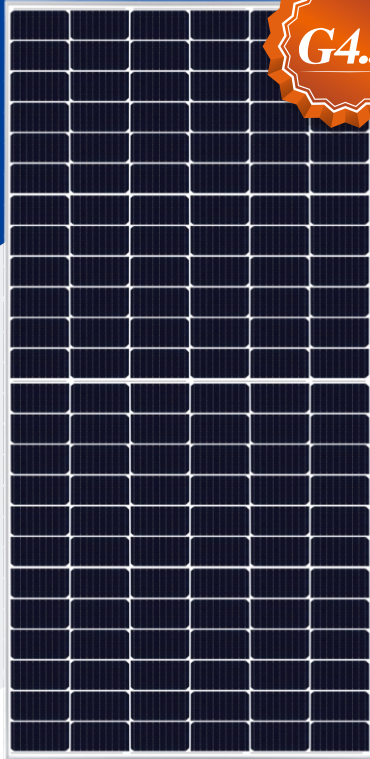


# HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



**G4.3**

## RSM144-7-430M-450M

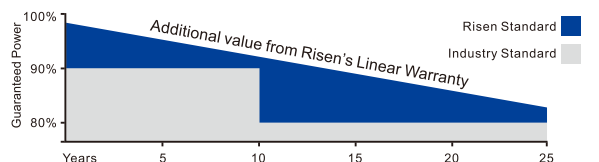
<b>144 CELL</b> Mono PERC Module	<b>430-450Wp</b> Power Output Range
<b>1500VDC</b> Maximum System Voltage	<b>20.4%</b> Maximum Efficiency

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



### LINEAR PERFORMANCE WARRANTY 12 year Product Warranty / 25 year Linear Power Warranty

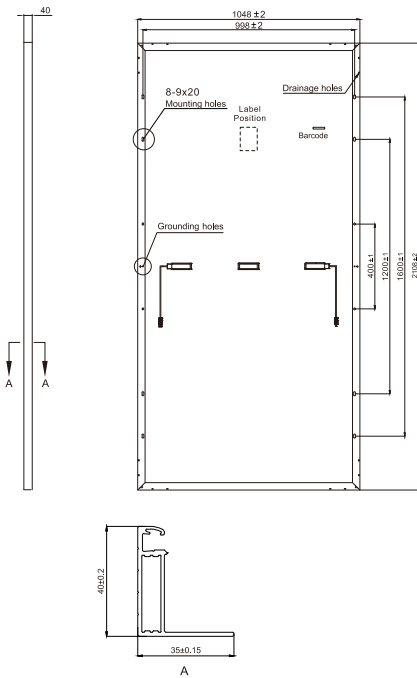


\* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd



Preliminary For Global Market

### Dimensions of PV Module Unit: mm



### ELECTRICAL DATA (STC)

Model Number	RSM144-7-430M	RSM144-7-435M	RSM144-7-440M	RSM144-7-445M	RSM144-7-450M
Rated Power in Watts-Pmax(Wp)	430	435	440	445	450
Open Circuit Voltage-Voc(V)	49.30	49.40	49.50	49.60	49.70
Short Circuit Current-Isc(A)	11.10	11.20	11.30	11.40	11.50
Maximum Power Voltage-Vmpp(V)	40.97	41.05	41.13	41.25	41.30
Maximum Power Current-Impp(A)	10.50	10.60	10.70	10.80	10.90
Module Efficiency (%) *	19.5	19.7	19.9	20.1	20.4

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	RSM144-7-430M	RSM144-7-435M	RSM144-7-440M	RSM144-7-445M	RSM144-7-450M
Maximum Power-Pmax (Wp)	321.5	325.2	329.6	333.9	338.2
Open Circuit Voltage-Voc (V)	45.36	45.45	46.18	46.39	46.43
Short Circuit Current-Isc (A)	9.10	9.18	9.27	9.35	9.43
Maximum Power Voltage-Vmpp (V)	37.53	37.60	37.80	37.90	38.00
Maximum Power Current-Impp (A)	8.57	8.65	8.72	8.81	8.90

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

### MECHANICAL DATA

Solar cells	Monocrystalline 166×83mm
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2108×1048×40mm
Weight	25kg
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	4.0mm <sup>2</sup> (12AWG), Positive(+) 270mm, Negative(-) 270mm
Connector	Risen Twinsel PV-SY02, IP68

### TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.37%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

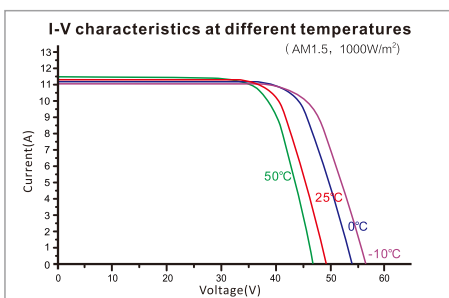
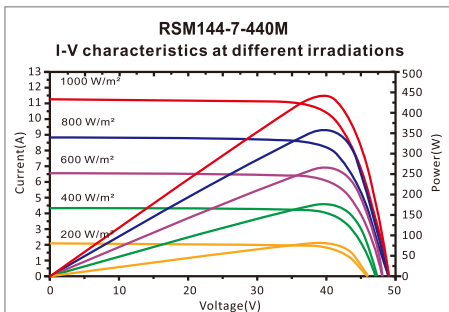
### PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	594	135
Number of modules per pallet	27	27
Number of pallets per container	22	5
Packaging box dimensions (LxWxH) in mm	2140×1130×1180	2140×1130×1180
Box gross weight[kg]	730	730

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

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