



# Hyper-ion Pro

## Heterojunction Hyper-ion Series Bifacial Module

**RSM132-8-720-745BHDG**

### Hyper-link Interconnection

Patented Technology

**720-745 Wp**

Power Output Range

**24.0%**

Higher Efficiency

**0~+3%**

Positive Power Tolerance



No B-O caused LID



Ultra-high bifacial factor



Ultra-high power generation, ultra-low carbon emission



Most stable power temperature coefficient



Lead technology of metallization process



Excellent anti-LID & anti-PID performance

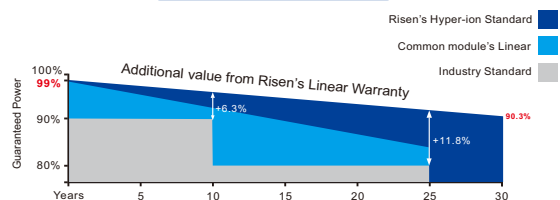


\* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

### LINEAR PERFORMANCE WARRANTY

15 years product warranty / 30 years linear power warranty

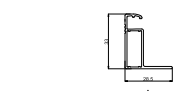
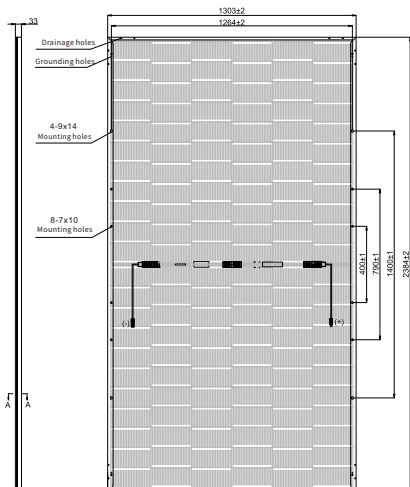
0.3% Annual Degradation over 30 years



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

## Dimensions of PV Module

Unit: mm



\*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

## ELECTRICAL DATA (STC)

Model Type	RSM132-8-720-745BHDG					
Rated Power in Watts-Pmax(Wp)	720	725	730	735	740	745
Open Circuit Voltage-Voc(V)	50.18	50.26	50.33	50.40	50.47	50.54
Short Circuit Current-Isc(A)	18.19	18.29	18.38	18.47	18.56	18.65
Maximum Power Voltage-Vmpp(V)	42.08	42.14	42.20	42.26	42.32	42.38
Maximum Power Current-Imp(A)	17.13	17.23	17.32	17.41	17.50	17.59
Module Efficiency (%) *	23.2	23.3	23.5	23.7	23.8	24.0

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
Bifacial factor: 90±5(%) \* Module Efficiency (%): Rounding to the nearest number

## Electrical characteristics with 10% rear side power gain

Model Type	RSM132-8-720-745BHDG					
Total Equivalent power -Pmax (Wp)	792	798	803	809	814	820
Open Circuit Voltage-Voc(V)	50.18	50.26	50.33	50.40	50.47	50.54
Short Circuit Current-Isc(A)	20.01	20.12	20.22	20.32	20.42	20.52
Maximum Power Voltage-Vmpp(V)	42.08	42.14	42.20	42.26	42.32	42.38
Maximum Power Current-Imp(A)	18.84	18.95	19.05	19.15	19.25	19.35

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

## ELECTRICAL DATA (NMOT)

Model Type	RSM132-8-720-745BHDG					
Maximum Power-Pmax (Wp)	550.0	554.0	557.7	561.3	565.0	568.8
Open Circuit Voltage-Voc (V)	47.02	47.09	47.16	47.22	47.29	47.36
Short Circuit Current-Isc (A)	14.92	15.00	15.07	15.15	15.22	15.29
Maximum Power Voltage-Vmpp (V)	39.34	39.40	39.46	39.51	39.57	39.63
Maximum Power Current-Imp(A)	13.98	14.06	14.13	14.21	14.28	14.35

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

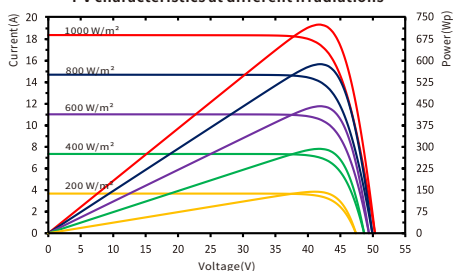
## MECHANICAL DATA

Solar cells	n-type HJT
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×33mm (93.86×51.30×1.30 in)
Weight	37.5kg (82.67 lb)
Superstrate	2.0mm(0.08in), High Transmission, AR Coated Heat Strengthened Glass
Substrate	2.0mm(0.08in), Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <sup>2</sup> , 350mm(13.78 in)(+), 230mm(9.06 in)(-), connector Included, or customized length
Connector	PV-SY02/Others
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back), under certain installation method

## TEMPERATURE & MAXIMUM RATINGS

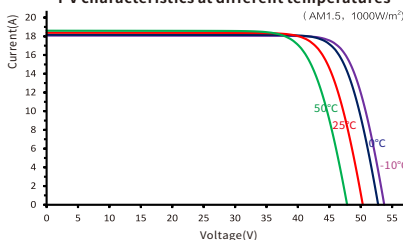
Nominal Module Operating Temperature (NMOT)	43°C ± 2°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

## RSM132-8-730BHDG I-V characteristics at different irradiances



## I-V characteristics at different temperatures

(AM1.5, 1000W/m<sup>2</sup>)



## PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	594
Number of modules per pallet	33
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1125×2520
Box gross weight[kg]	1289



RISEN ENERGY CO., LTD.

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

Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risen.com

Website: www.risen.com

THE POWER OF RISING VALUE

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

© 2025 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.

Version: REM132-BHDG-0BB-EN-H2-1-2025-Pro