risen

RisenSpace

Preliminary 90

Space-proven HJT Technology

475-500Wp

Power Output Range



P Maximum **Power** Generation

E **Enduring** 40-Year Value

A Ultimate Full-Black **Aesthetics**

R Ultimate Micro-Crack **Resistance**

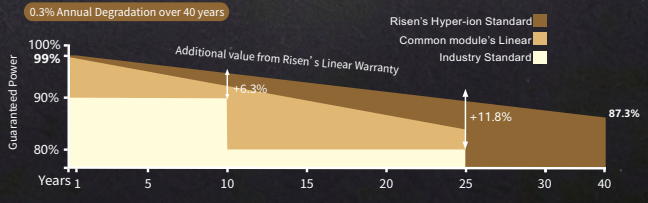
L Superior **Low-Light** Performance

BLACK PEARL

Full-black luxury, perfectly matched to your roof

LINEAR PERFORMANCE WARRANTY

40 years Product Warranty / 40 years Linear Power Warranty



Only applicable to rooftop market in Australia and New Zealand

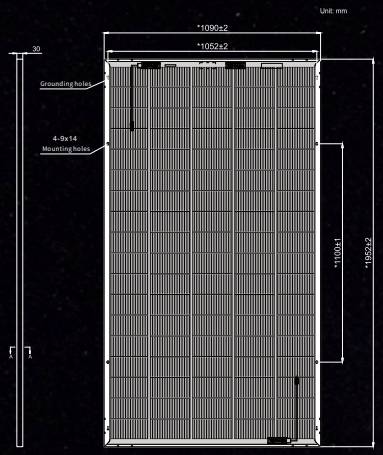
* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

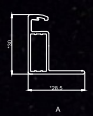
ISO9001
ISO14001
ISO45001
IEC62941

* 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.
* The module picture is for reference only.

500W	-0.24%	-0.3%	⩽1%
Maximum Power (Pmax)	Temp. Coeff. (Pmax)	Linear Degradation	First-year Degradation

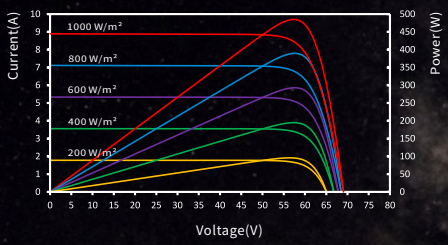
Dimensions of PV Module



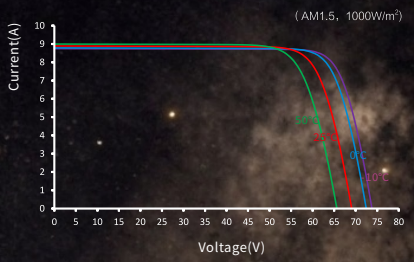


*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

RSM90-8-485HDGB
I-V characteristics at different irradiations



I-V characteristics at different temperatures



ELECTRICAL DATA (STC)

Model Type	RSM90-8-475-500HDGB					
Rated Power in Watts-Pmax(Wp)	475	480	485	490	495	500
Open Circuit Voltage-Voc(V)	68.76	68.92	69.08	69.24	69.40	69.56
Short Circuit Current-Isc(A)	8.76	8.82	8.89	8.95	9.01	9.07
Maximum Power Voltage-Vmpp(V)	57.20	57.36	57.54	57.68	57.84	58.02
Maximum Power Current-Impp(A)	8.31	8.37	8.43	8.50	8.56	8.62
Module Efficiency (%) ★	22.3	22.6	22.8	23.0	23.3	23.5

STC: Irradiance 1000 W/m², 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 DATA (BNPI)

Model Type	RSM90-8-475-500HDGB					
Maximum Power-Pmax (Wp)	532	538	543	549	554	560
Open Circuit Voltage-Voc (V)	68.76	68.92	69.08	69.24	69.40	69.56
Short Circuit Current-Isc (A)	9.82	9.89	9.97	10.03	10.10	10.17
Maximum Power Voltage-Vmpp (V)	57.20	57.36	57.54	57.68	57.84	58.02
Maximum Power Current-Impp (A)	9.31	9.38	9.45	9.52	9.59	9.66

BNPI: Front side irradiance 1000 W/m², Rear side irradiance 135 W/m², Cell Temperature 25°C, Air Mass AM1.5.
Power measurement tolerance: ±3%

MECHANICAL DATA

Solar cells	*n*-type HJT
Cell configuration	90 cells (18×5)
Module dimensions	1952×1090×30mm (76.85×42.91×1.18 in)
Weight	24kg (52.91 lb)
Superstrate	2.0mm(0.08in), High Transmission, AR Coated Heat Strengthened Glass
Substrate	1.6mm(0.06in), Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm², 1200mm(47.24 in)(+), 1200mm(47.24 in)(-), connector Included, or customized length
Connector	MC4 EVO2/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
Level T_{98} ⩽ 70°C	-40°C~+70°C ★
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

Short-term up to 85°C; higher operation requires IEC TS 63126 testing.★

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	888	185
Number of modules per pallet	37	37
Number of pallets per container	24	5
Packaging box dimensions (LxWxH) in mm	1970×1130×1230	
Box gross weight[kg]	933	

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

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