

WWW.RESUNSOLAR.COM



## RS81-M(535-560)

RS81-M(535-560) is a robust solar module with 144 solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee Restar solar's modules meet the highest quality standards possible.

**144 Cells**

Mono-crystalline

**535-560W**

Power output

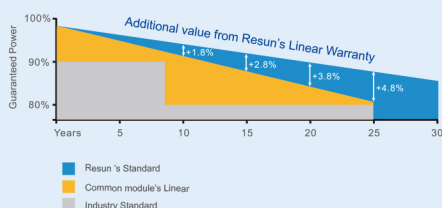
**21.66%**

The Highest Efficiency

**0~+5W**

Tolerance

**0.5% Annual Degradation  
over 30 years**



High module conversion efficiency (up to 21.66%), through superior manufacturing technology



Guaranteed 0-+5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



Excellent performance under low light environments (mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and lakes. Withstand high level of wind loads (2400pa) and snow loads (5400pa)

Full range of products and certification systems

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



LINEAR PERFORMANCE WARRANTY

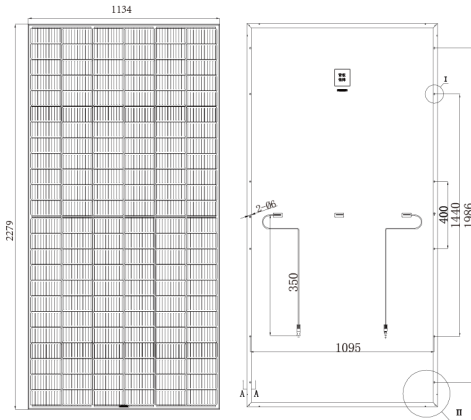
12 year Product Warranty / 30 year Linear Power Warranty

# RS81-M(535-560)



GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



## ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	535W	540W	545W	550W	555W	560W
Open Circuit Voltage-Voc(V)	49.60V	49.80V	50.00V	50.02V	50.40V	50.60V
Short Circuit Current-Isc(A)	13.69A	13.75A	13.81A	13.87A	13.93A	13.99A
Maximum Power Voltage-Vmp(V)	41.40V	41.60V	41.80V	42.00V	42.20V	42.40V
Maximum Power Current-Imp(A)	12.93A	12.99A	13.04A	13.10A	13.16A	13.21A
Intergrated Solutions Supplier(%)	20.69%	20.89%	21.08%	21.27%	21.47%	21.66%

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

## ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	405W	408W	412W	416W	420W	424W
Open Circuit Voltage-Voc (V)	47.40V	47.60V	47.80V	48.0V	48.20V	48.40V
Short Circuit Current-Isc (A)	11.04A	11.09A	11.13A	11.18A	11.23A	11.28A
Maximum Power Voltage-Vmp(V)	38.80V	39.00V	39.20V	39.40V	39.60V	39.80V
Maximum Power Current-Imp(A)	10.42A	10.47A	10.51A	10.56A	10.61A	10.65A

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

## MECHANICAL DATA

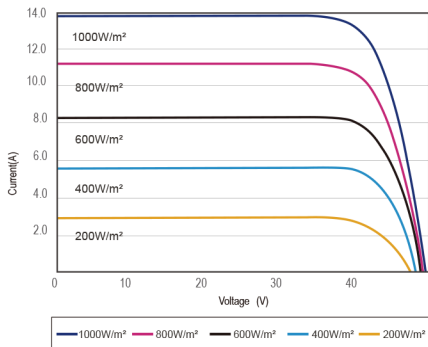
Solar cells	Mono-crystalline 182x91mm,
Cell configuration	144cells(6x24)
Module dimensions	2279x1134x35mm
Weight	29KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),900mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/Pallet

## TEMPERATURE & MAXIMUM RATINGS

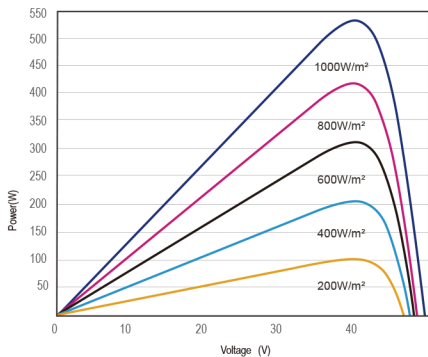
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

## PACKAGING CONFIGURATION

Packing Type	20GP	40GP	40HQ
Piece/Pallet	31	31	31
Pallet/Container	5	10	20
Piece/Container	155	310	620



I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)