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## RS8I-550~560M-F30

RS8I-550~560M 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 Resun Solar's modules meet the highest quality standards possible

**144 Cells**

Mono-crystalline

**550-560W**

Power output

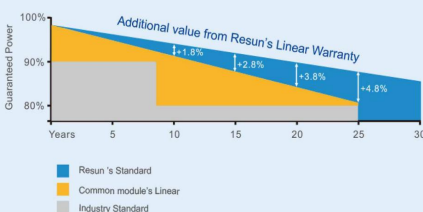
**21.7%**

The Highest Efficiency

**0~+5W**

Tolerance

**0.5% Annual Degradation  
over 30 years**



High module conversion efficiency (up to 21.7% ), 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)

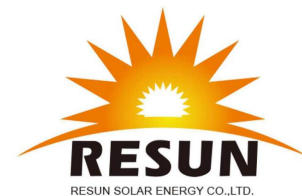
Full range of products and certification systems

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



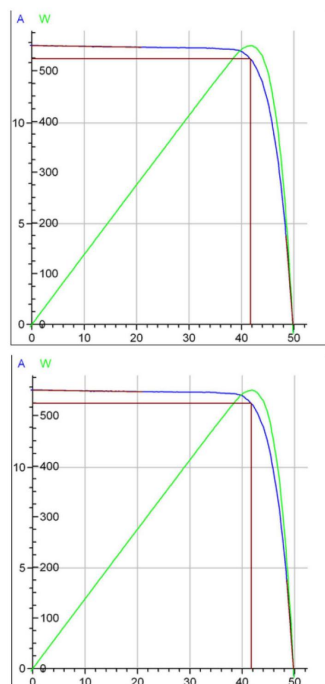
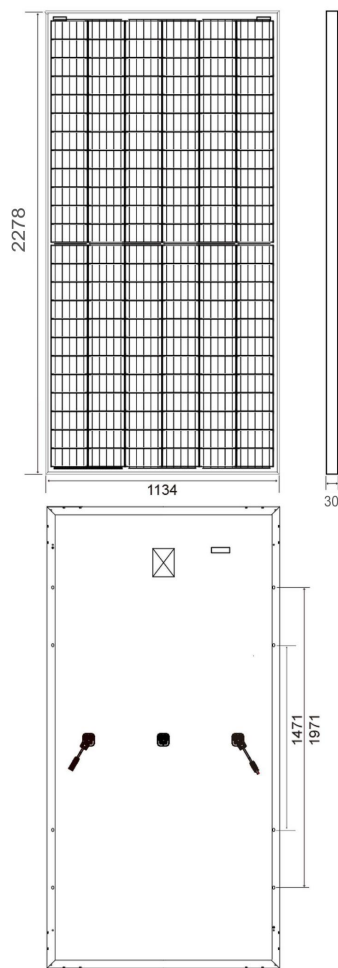
**LINEAR PERFORMANCE WARRANTY**  
15 year Product Warranty / 30 year Linear Power Warranty

# RS8I-550~560MF30



GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



## ELECTRICAL DATA(STC)

| Rated Power in Watts-Pmax(Wp) | 550W   | 555W   | 560W   |
|-------------------------------|--------|--------|--------|
| Open Circuit Voltage-Voc(V)   | 49.90V | 49.98V | 50.05V |
| Short Circuit Current-Isc(A)  | 14.00A | 14.03A | 14.07A |
| Maximum Power Voltage-Vmp(V)  | 41.96V | 42.06V | 42.12V |
| Maximum Power Current-Imp(A)  | 13.11A | 13.19A | 13.30A |
| Module Efficiency (%)         | 21.3 % | 21.4%  | 21.7%  |

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)       | 416W   | 420W   | 424W   |
| Open Circuit Voltage-Voc (V)  | 46.68V | 46.78V | 46.85V |
| Short Circuit Current-Isc (A) | 11.17A | 11.20A | 11.24A |
| Maximum Power Voltage-Vmp(V)  | 39.43V | 39.62V | 39.67V |
| Maximum Power Current-Imp(A)  | 10.55A | 10.60A | 10.69A |

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

## MECHANICAL DATA

|                    |  |
|--------------------|--|
| Solar cells        | Mono-crystalline 182*91mm,10 Bus bars        |
| Cell configuration | 144cells(6*24)                               |
| Module dimensions  | 2278*1134*30mm                               |
| Weight             | 27.2 kg                                      |
| Front Cover        | 3.2mm Tempered Glass                         |
| J-BOX              | IP68   |
| Cable              | 4mm <sup>2</sup> (IEC)/12AWG(UL),300mm/400mm |
| Connectors         | MC4 or MC4 Comparable                        |
| Standard Packaging | 36pcs/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                    | 1500W(IEC)/1500v(UL) |
| Max Series Fuse Rating                    | 25A                  |
| Limiting Reverse Current                  | 25A                  |

## PACKAGING CONFIGURATION

|                                 | 40HQ           | 20GP |
|---------------------------------|----------------|------|
| Number of modules per container | 720pcs         |      |
| Package                         | 36 pcs/pallet  |      |
| Package Weight                  | 20pallets      |      |
| Package Number                  | 1000 kg/pallet |      |
| Package Dimension               |                |      |