

Solar panel

Mono-Crystalline PERC HALF CUT

Technology & Quality

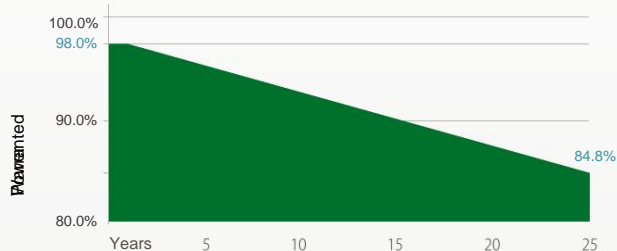
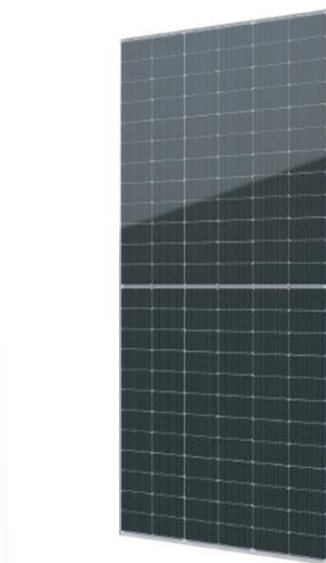
A complete photovoltaic industrial chain.

Solarever Group has a complete photovoltaic industry including silicon ingots, solar cells, solar modules and photovoltaic systems.

Great quality

Supply and processing of material insured for 12 years.

We guarantee our products above 91.9% power in 12 years and more than 84.8% in 25 years. The first year's degradation is 2%, the next 24 years, each year's degradation is 0.55%.



SE-182*91-M-144

540-560 Watts



Main Features

- 10/11 busbar half-cut cell with PERC technology to provide higher power output.
- Anti-reflective coating and high glass transmission increase the power output and strength of the solar panel.
- Anti-twist and corrosion-resistant anodized frame ensuring reliable operation even when atmospheric conditions are difficult.
- Pre-drilled and lightweight mounting holes for easy installation.
- Waterproof connection box.
- Specially designed to meet the demands of our customers for residential, commercial and industrial use.

Complete system and product certification

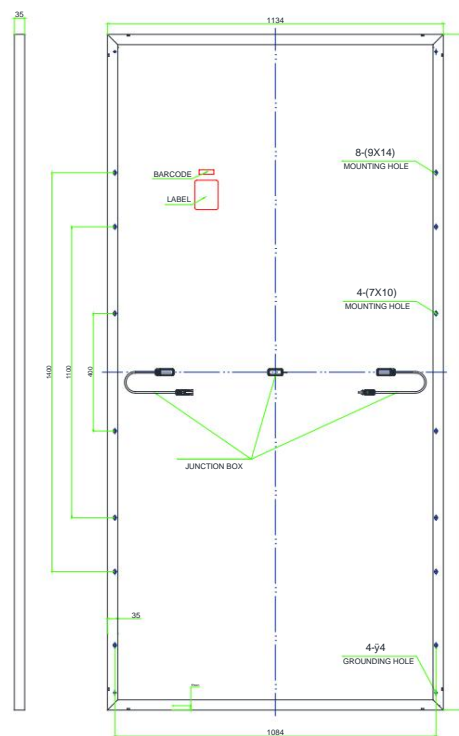
IEC 61215, IEC 61730, UL61730
ISO 9001:2015:ISO Quality Management System



SE-182*91-M-144

Mechanical characteristics

| | |
|---------------------------------|---|
| Cell type | Monocrystalline PERC 182x91mm (split cell) |
| Number and arrangement of cells | 6x24(144pcs) |
| Dimensions | 2278x1134x35mm |
| Weight | 28.0Kg |
| Front glass | 3.2mm tempered glass |
| Frame | Anodized aluminum alloy |
| Encapsulation | Crystal/EVA/Cell/ EVA/TPT |
| RH | 0 to 100% |
| maximum static load | 5400Pa(front side) 2400Pa(back side) |
| Connection box | IP 68, three diodes, MC4 compatible connector |
| Output cable | 4mm ² , 450mm or 1200mm |
| Fire resistance | UL: Type 1, IEC: Class C |

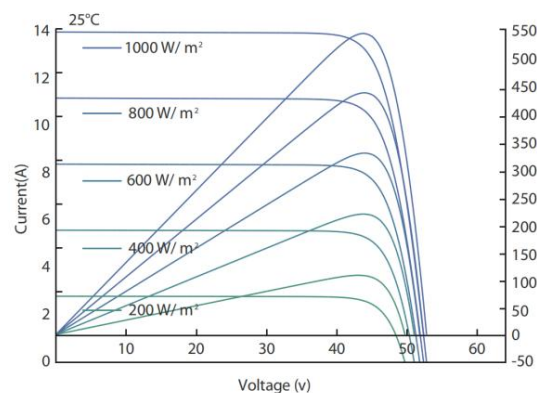


Note: All units in mm

Temperature Coefficients

| | |
|---|---|
| Nominal operating temperature in the cell | 45 $\dot{\ddot{y}}\pm 2\dot{\ddot{y}}$ |
| Maximum power temperature | -(0.35 ± 0.05)%/ $\dot{\ddot{y}}$ |
| Open Circuit Voltage Temperature | -(0.27 ± 0.02)%/ $\dot{\ddot{y}}$ |
| Short Circuit Current Temperature | +(0.05 ± 0.005)%/ $\dot{\ddot{y}}$ |
| Maximum fuse current | 25A |

Characteristic curve IV



Electrical Characteristics

| | STC | STC | STC | STC | STC |
|----------------------------|-----------------------------|--------|--------|--------|--------|
| Module type | 540M | 545M | 550M | 555M | 560M |
| Open circuit voltage(V) | 49.41 | 49.61 | 49.80 | 49.87 | 50.02 |
| Short circuit current(A) | 13.86 | 13.93 | 13.98 | 14.08 | 14.14 |
| Optimal circuit voltage(V) | 41.54 | 41.77 | 41.95 | 42.14 | 42.29 |
| Optimal circuit current(A) | 13.00 | 13.05 | 13.12 | 13.17 | 13.24 |
| Maximum operating power | 540W | 545W | 550W | 555W | 560W |
| Module efficiency in STC | 20.90% | 21.12% | 21.31% | 21.48% | 21.68% |
| Operating temperature | -40 $\dot{\ddot{y}}$ to +85 | | | | |
| Maximum system voltage | 1500V DC | | | | |
| Output Power Tolerance | 0~+5W | | | | |

STC: Irradiation 1000W/m², module temperature 25°C, AM 1.5; NOCT: Irradiation 800W/m², ambient temperature 20°C, AM 1.5, wind speed 1m/s

* Power test tolerance: $\pm 3\%$