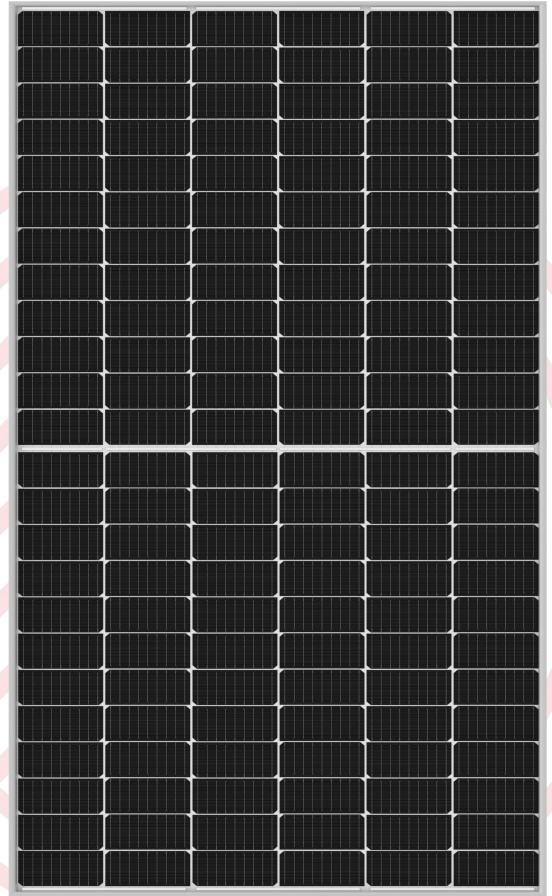


PERC Half Cut Mono-Crystalline white ESM 530/535/540/545/550S

0~+3% POWER TOLERANCE

High efficiency PERC P - type solar module



Module characteristics



Strong Mechanical Strength

Pass the wind load test of 2400Mpa and the snow load test of 5400Mpa.



Low attenuation rate

Good reliability and lower LID/LETID attenuation rate.



PID resistance

The attenuation probability of PID phenomenon is minimized through solar cell production technology optimization and robust raw material quality control.



Harsh environmental adaptation

Robust design for demanding climate conditions.



MBB and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability.



Long and reliable quality assurance

IEC61215(2016), IEC61730(2016)

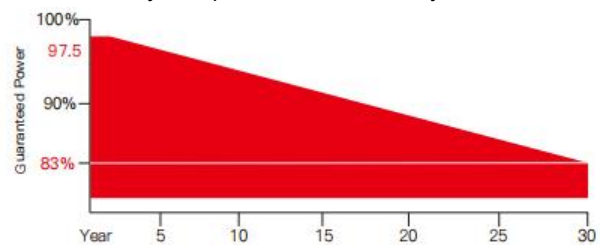
ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system

12 years material and workmanship warranty

30 years power linear warranty



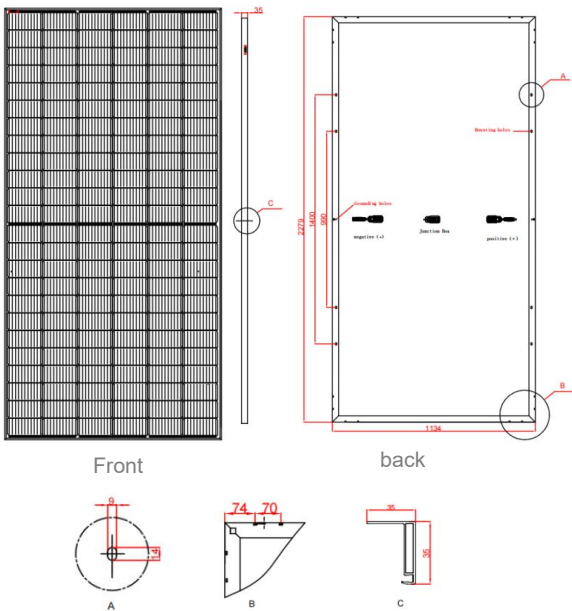
From the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%.

Electrical Parameters

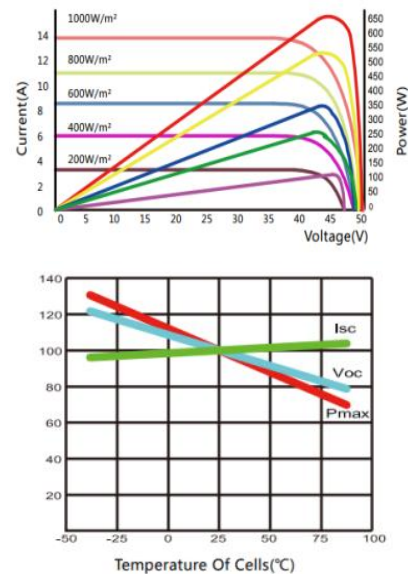
| Model Type | ESM-530S | | ESM-535S | | ESM-540S | | ESM-545S | | ESM-550S | |
|------------------------------------|-----------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 530 | 394 | 535 | 398 | 540 | 402 | 545 | 405 | 550 | 409 |
| Open Circuit Voltage (Voc) | 49.25 | 46.50 | 49.40 | 46.57 | 49.55 | 46.65 | 49.70 | 46.74 | 49.85 | 46.84 |
| Short Circuit Current (Isc) | 13.73 | 11.07 | 13.79 | 11.14 | 13.85 | 11.19 | 13.91 | 11.27 | 13.97 | 11.33 |
| Maximum Power Voltage (Vmp) | 41.40 | 37.84 | 41.55 | 37.91 | 41.70 | 38.08 | 41.85 | 38.25 | 42.00 | 38.42 |
| Maximum Power Current (Imp) | 12.81 | 10.42 | 12.88 | 10.50 | 12.95 | 10.55 | 13.03 | 10.60 | 13.10 | 10.65 |
| Module Efficiency - η_m (%) | 20.5 | | 20.7 | | 20.9 | | 21.1 | | 21.3 | |
| Operational Temperature | -40°C ~ +85°C | | | | | | | | | |
| Maximum System Voltage | 1500VDC | | | | | | | | | |
| Maximum Series Fuse Rating | 20A | | | | | | | | | |
| Power Tolerance | 0 ~ +3% | | | | | | | | | |
| Temperature Coefficient of Pmax | -0.360%/°C | | | | | | | | | |
| Temperature Coefficient of Voc | -0.260%/°C | | | | | | | | | |
| Temperature Coefficient of Isc | +0.046%/°C | | | | | | | | | |
| Nominal Operating Cell Temperature | 45 ± 2°C | | | | | | | | | |
| Safety Class | Class II | | | | | | | | | |
| Max Load (Front/back) | 5400Mpa/2400Mpa | | | | | | | | | |

STC: Irradiance 1000W/m² Cell temperature 25°C Atmospheric quality = 1.5
 NOCT: Irradiance 800W/m² Ambient temperature 25°C Atmospheric quality = 1.5 Wind speed 1m/S

Mechanical Diagrams



Curve



Packing Details

31pcs/pallet

40HQ: 26 pallets/40HQ, 620pcs/40HQ

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 Website: www.einnova-solarline.com

Specification

| | |
|--------------------|------------------------------------|
| Cell type | mono crystalline 182*91mm |
| Half-cell quantity | 144pcs(24×6) |
| Dimension | 2279×1134×35mm |
| Weight | 28kgs±3% |
| Glass | 3.2mm tempered glass and AR coated |
| Frame | Silver Anodized Aluminum Alloy |
| Junction Box | IP68 |
| Cable | 1200mm (can be customized) |

The company reserves the right of final right of adjustment of this file.