

PERC-S1 SERIES

Small changes, Big Accomplishments







540-555W



● PERC-S1 SERIES

Fortune Energy redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Fortune Energy panel combined creative technology effectively and extremely improved the module efficiency and power output.

● KEY FEATURES

-  Less mismatch to get more power
-  Less power loss by minimizing the shading impact
-  Competitive low light performance
-  3 times EL test to ensure best quality
-  Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI
-  Outstanding reliability proven by PVEL for stringent environment condition:
 - Sand, acid, salt and hail stones
 - 2400 Pa wind load and 5400 Pa snow load
 - Anti-PID

● QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

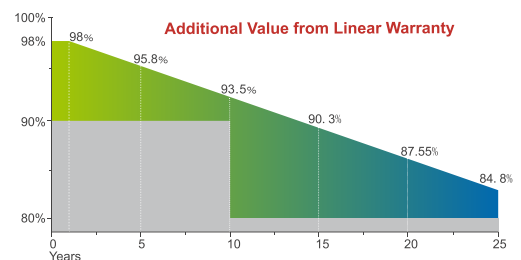
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



Electrical Characteristics

| Module Type | FEPM-540M/6A-H | | FEPM-545M/6A-H | | FEPM-550M/6A-H | | FEPM-555M/6A-H | |
|-----------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power at STC (Pmp) | 540 | 406 | 545 | 409 | 550 | 414 | 555 | 418 |
| Open Circuit Voltage (Voc) | 49.50 | 46.18 | 49.60 | 46.32 | 49.70 | 46.40 | 49.80 | 46.50 |
| Short Circuit Current (Isc) | 13.81 | 11.16 | 13.90 | 11.23 | 14.00 | 11.32 | 14.10 | 11.41 |
| Maximum Power Voltage (Vmp) | 41.55 | 38.39 | 41.80 | 38.41 | 42.05 | 38.58 | 42.31 | 38.68 |
| Maximum Power Current (Imp) | 13.00 | 10.59 | 13.04 | 10.65 | 13.08 | 10.73 | 13.12 | 10.81 |
| Module Efficiency at STC(%) | 20.90 | | 21.10 | | 21.29 | | 21.48 | |
| Power Tolerance | (0, +4.99W) | | | | | | | |
| Maximum System Voltage | 1500V DC | | | | | | | |
| Maximum Series Fuse Rating | 25 A | | | | | | | |

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
 Power measurement tolerance: +/-3%

Temperature Characteristics

| | |
|--|--------------|
| Pmax Temperature Coefficient | -0.34 %/°C |
| Voc Temperature Coefficient | -0.26 %/°C |
| Isc Temperature Coefficient | +0.05 %/°C |
| Operating Temperature | -40 ~ +85 °C |
| Nominal Operating Cell Temperature(NOCT) | 45±2 °C |

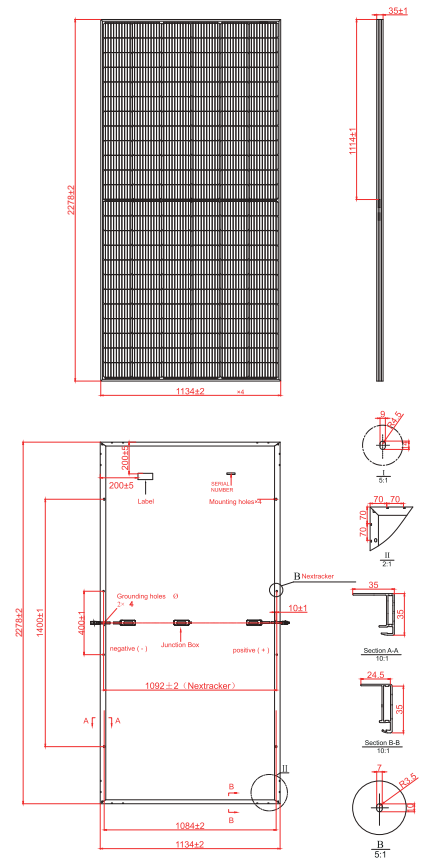
Mechanical Specifications

| | |
|---------------------|---|
| External Dimensions | 2278x1134x35 mm |
| Weight | 27.0 kg |
| Solar Cells | PERC Mono (144pcs) |
| Front Glass | 3.2mm AR coating tempered glass, low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0mm ² , 250mm(+)/350mm(-) or Customized Length |
| Mechanical Load | Front side 5400Pa/ Rear side 2400Pa |

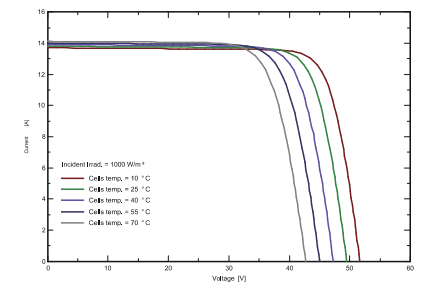
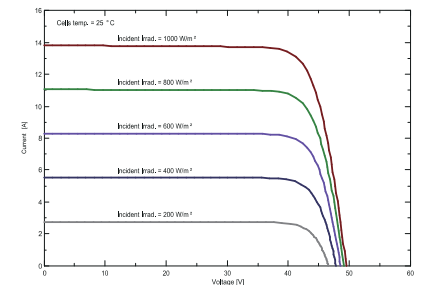
Packing Configuration

| | 2278x1134x35 mm | |
|-----------------------|-----------------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per Pallet | 31+4* | 31 |
| Pallets per Container | 4 | 20 |
| Pieces per Container | 140 | 620 |

* 31+4 pieces per pallet is the special package which only suits for container transport.
 For details, please consult FORTUNE ENERGY.



I-V Curve



Specifications are subject to change without further notification FEPM-DS-EN-2023V1.0 © Copyright 2023 Fortune Energy

