

## ELNSM78M-HC-HV Series



## MBB HC MONOCRYSTALLINE PV MODULE 585-600W



### Sirius 182M Series

Elin redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Sirius 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.



Ideal choice for utility and commercial scale projects by reduced BOS and improve ROI.



In stringent environment condition :

- Sand, acid, salt and hail stones,
- 2400pa wind load and 5400pa snow load.
- PID FREE

## QUALITY SYSTEM



ISO 9001:2015, ISO 14001:2015, ISO 45001: 2018, ISO 27001:2013, ISO 10002: 2018, ISO 26000:2021, ISO 37001:2016, ISO 50001:2018

## PRODUCT CERTIFICATION



TS EN 61215, TS EN 61730  
IEC 61215, IEC 61730, IEC 62804 (PID FREE)  
UL 61730-1, UL 61730-2

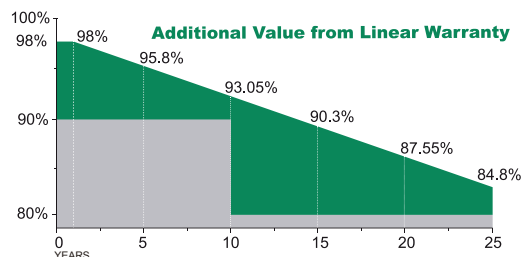
## WARRANTY



**12** Years  
Guarantee On  
Product



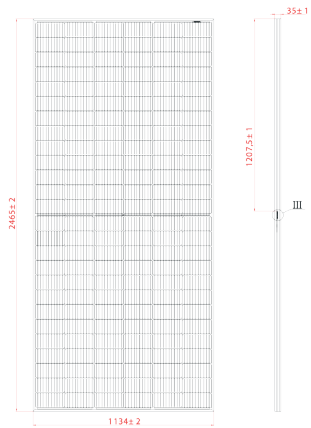
**25** Years  
Linear Power  
Output Warranty



## ELNSM78M-HC-HV Series

### ELECTRICAL CHARACTERISTICS

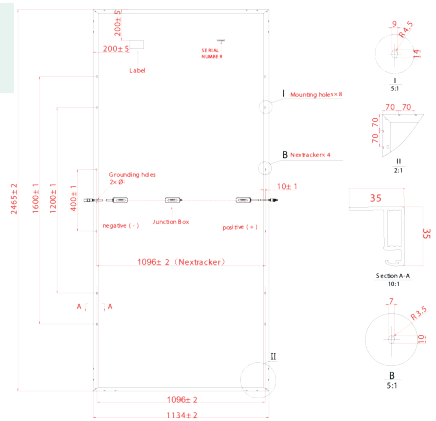
| Module Type                          | ELNSM78M-HC-HV-585 |       | ELNSM78M-HC-HV-590 |       | ELNSM78M-HC-HV-595 |       | ELNSM78M-HC-HV-600 |       |
|--------------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
|                                      | STC                | NOCT  | STC                | NOCT  | STC                | NOCT  | STC                | NOCT  |
| Maximum Power at STC (Pmp)           | 585                | 440   | 590                | 444   | 595                | 448   | 600                | 452   |
| Open Circuit Voltage (Voc)           | 53.63              | 50.95 | 53.83              | 51.14 | 54.03              | 51.33 | 54.23              | 51.52 |
| Short Circuit Current (Isc)          | 13.87              | 11.10 | 13.93              | 11.14 | 13.99              | 11.19 | 14.05              | 11.24 |
| Maximum Power Voltage (Vmp)          | 45.01              | 42.28 | 45.21              | 42.50 | 45.41              | 42.72 | 45.61              | 42.93 |
| Maximum Power Current (Imp)          | 13.01              | 10.41 | 13.06              | 10.45 | 13.11              | 10.49 | 13.16              | 10.53 |
| Module Efficiency at STC ( $\eta$ m) | 20.93              |       | 21.11              |       | 21.29              |       | 21.46              |       |
| Power Tolerance                      | (0, +4,99 W)       |       |                    |       |                    |       |                    |       |
| Maximum System Voltage               | 1500V DC           |       |                    |       |                    |       |                    |       |
| Maximum Series Fuse Rating           | 25 A               |       |                    |       |                    |       |                    |       |



\* Measurement Tolerance +/- 3%  
 STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5;  
 NOCT: Irradiance 800W /m<sup>2</sup>, Ambient Temperature 20 °C, AM = 1.5, Wind Speed 1m/s

### 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 | 2465 x 1134 x 35 mm  |
| Weight              | 29 kg  |
| Solar Cells         | PERC Mono (156 pcs)  |
| Glass               | 3.2 mm AR coating tempered glass, low iron                   |
| Frame               | Anodized aluminum alloy                                      |
| Junction Box        | IP68,3 diodes  |
| Output Cables*      | 4.0 mm <sup>2</sup> , 350mm(+)/350mm(-) or Customized Length |
| Mechanical Load     | Front side 5400Pa / Rear side 2400Pa                         |

\*Output cable lengths should be specified at the time of order.

### PACKING CONFIGURATION

|                       | 2465 x 1134 x 35 mm |       |
|-----------------------|---------------------|-------|
| Container             | 20'GP               | 40'HQ |
| Pieces per Pallet     | 31                  | 31    |
| Pallets per Container | 4                   | 20    |
| Pieces per Container  | 124                 | 558   |

ELIN A.Ş. reserves the right to change the technical specifications and design data in the catalog without prior notice.  
 Made in Türkiye.

### I - V CURVE

