

**ELNSM78M-HC-HV Series**



**MBB HC BIFACIAL  
MONOCRYSTALLINE  
PV MODULE  
585-600W**



**Bifacial 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

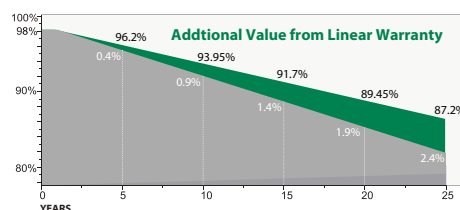
**WARRANTY**



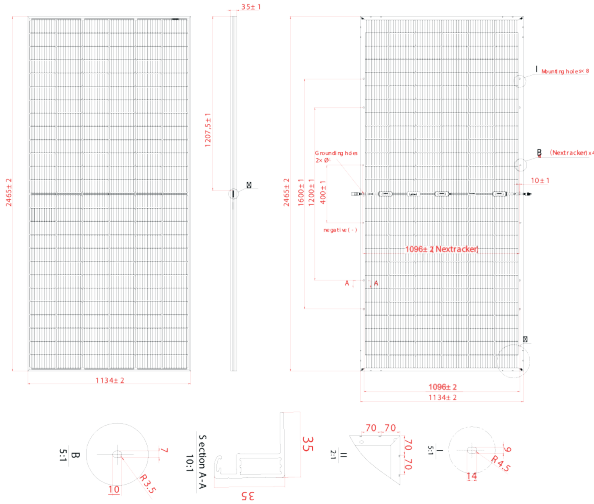
**Guarantee On Product**



**Linear Power Output Warranty**



## ELNSM78M-HC-HV Series



### MECHANICAL SPECIFICATIONS

External Dimension	2465 x 1134 x 35 mm
Weight	29 kg
Solar Cells	PERC Mono crystalline(156pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables*	4.0mm <sup>2</sup> , 350mm(+)/350mm(-) or Customized Length

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

### PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	18
Pieces per Container	124	558

\* 31+4 pieces per pallet is the special package which only suits for container transport.

Module Type	ELNSM78M-HC-HV-585			ELNSM78M-HC-HV-590			ELNSM78M-HC-HV-595			ELNSM78M-HC-HV-600		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P <sub>mp</sub> (W)	585	440	468	590	444	472	595	448	476	600	452	480
Maximum Power Voltage -V <sub>mp</sub> (V)	45.01V	42.28V	44.99V	45.21V	42.50V	45.19V	45.41V	42.72V	45.39V	45.61V	42.93V	45.59V
Maximum Power Current -I <sub>mp</sub> (A)	13.01A	10.41A	10.41A	13.06A	10.45A	10.45A	13.11A	10.49A	10.49A	13.16A	10.53A	10.53A
Open Circuit Voltage -V <sub>oc</sub> (V)	53.63V	50.95V	53.61V	53.83V	51.14V	53.81V	54.03V	51.33V	54.01V	54.23V	51.52V	54.21V
Short Circuit Current -I <sub>sc</sub> (A)	13.87A	11.10A	11.10A	13.93A	11.14A	11.14A	13.99A	11.19A	11.19A	14.05A	11.24A	11.24A
Module Efficiency STC-η <sub>m</sub> (%)	20.93%			21.11%			21.29%			21.46%		
Power Tolerance(W)							(0, +4.99)					
Pmax Temperature Coefficient							-0.34 %/°C					
Voc Temperature Coefficient							-0.26 %/°C					
Isc Temperature Coefficient							+0.05 %/°C					

\* 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

### REAR SIDE POWER GAIN

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	649	679	708	738	767
Open Circuit Voltage -V <sub>oc</sub> (V)	53.83	53.83	53.83	53.83	53.83
Short Circuit Current -I <sub>sc</sub> (A)	15.32	16.02	16.72	17.41	18.11
Maximum Power Voltage -V <sub>mp</sub> (V)	45.21	45.21	45.21	45.21	45.21
Maximum Power Current -I <sub>mp</sub> (A)	14.37	15.02	15.67	16.33	16.98

### APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±10%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

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

