

## ELNSM78M-HC-HV-N Series



## MBB HC MONOCRYSTALLINE PV MODULE 615-630W



### Sirius 182MM\_N-TYPE Series

Elin redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Sirius combined creative technology with 182mm\_N Type module. This caused 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.



SMBB Technology  
Better light trapping and current collection to improve module power output and reliability.



In stringent environment condition :  
• Sand, acid, salt and hail stones,  
• 2400pa wind load and 5400pa snow load.  
• PID FREE



3 times EL test to ensure best quality.

## 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

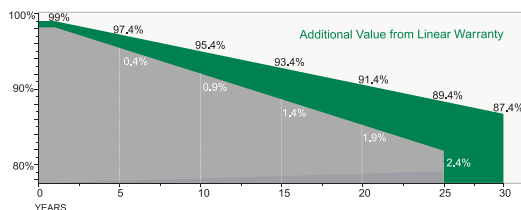
## WARRANTY



**15** YEARS  
Guarantee On Product



**30** YEARS  
Linear Power Output Warranty



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### ELECTRICAL SPECIFICATIONS

Module Type	ELNSM78M-HC-HV-N-615		ELNSM78M-HC-HV-N-620		ELNSM78M-HC-HV-N-625		ELNSM78M-HC-HV-N-630	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	615Wp	462Wp	620Wp	466Wp	625Wp	470Wp	630Wp	474Wp
Maximum Power Voltage (Vmp)	46.56V	43.72V	46.76V	43.93V	46.93V	44.11V	47.13V	44.32V
Maximum Power Current (Imp)	13.21A	10.57A	13.26A	10.61A	13.32A	10.66A	13.37A	10.70A
Open Circuit Voltage (Voc)	55.84V	53.05V	56.04V	53.24V	56.24V	53.43V	56.44V	53.62V
Short Circuit Current (Isc)	13.89A	11.11A	13.95A	11.16A	14.01A	11.21A	14.07A	11.26A
Module Efficiency STC (%)	22.00%		22.18%		22.36%		22.54%	
Power Tolerance(W)	(0, +4,99 W)							
Maximum System Voltage	1500V DC							
Maximum Series Fuse Rating	25 A							
* Measurement Tolerance +/- 3%								
STC: Irradiance 1000W/m2, module temperature 25°C, AM=1.5								
NOCT: Irradiance 800W/m2, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s								

### TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.29 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°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	Topcon 182 x 91mm (156 pcs)
Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium 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

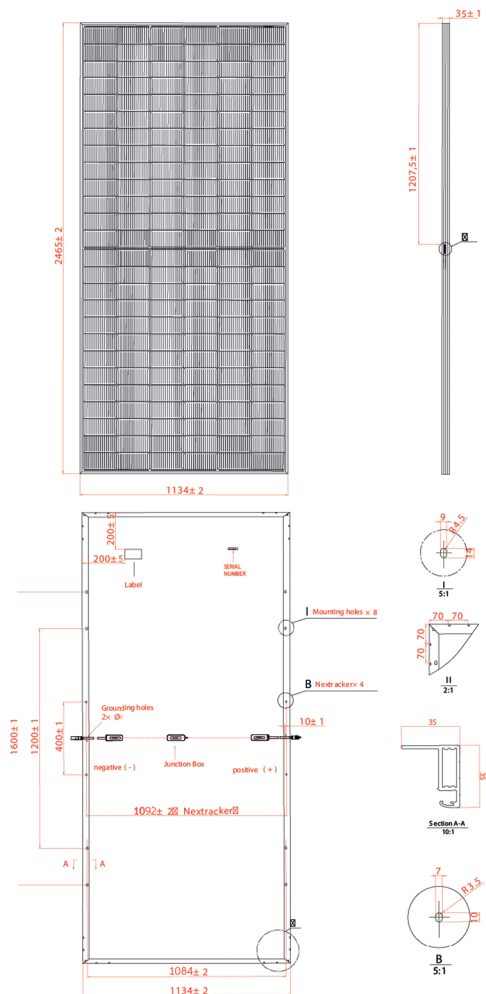
\* Output cable lengths should be specified at the time of order.

### 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	620

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

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

