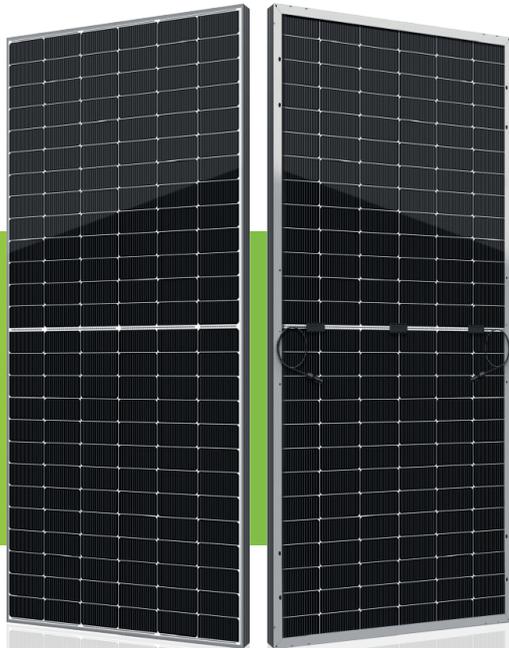


ELNSM78M-HC-HV-N Series



**MBB HC BIFACIAL
PV MODULE
615-630W**



Bifacial_N-TYPE Series

Sirius redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cutcell 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 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

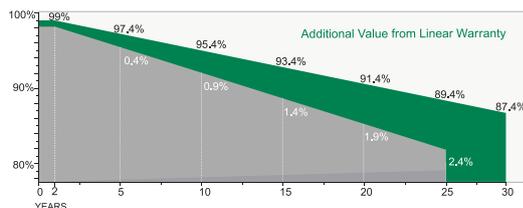
WARRANTY



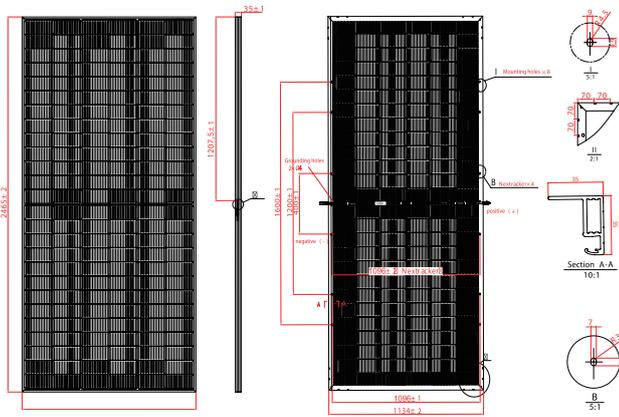
12 Years
Guarantee On
Product



30 Years
Linear Power
Output Warranty



ELNSM78M-HC-HV-N Series



MECHANICAL SPECIFICATIONS

External Dimension	2465 x 1134 x 35 mm
Weight	29 kg
Solar Cells	Topcon 182 x 91mm (156 pcs)
Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables*	4.0mm ² , 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	20
Pieces per Container	124	620

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

Module Type	ELNSM78M-HC-HV-N-615			ELNSM78M-HC-HV-N-620			ELNSM78M-HC-HV-N-625			ELNSM78M-HC-HV-N-630		
	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 _{mp} (W)	615	462	492	620	466	496	625	470	500	630	474	504
Open Circuit Voltage -V _{oc} (V)	55.84V	53.05V	55.82V	56.04V	53.24V	56.02V	56.24V	53.43V	56.22V	56.44V	53.62V	56.42V
Short Circuit Current -I _{sc} (A)	13.89A	11.11A	11.11A	13.95A	11.16A	11.16A	14.01A	11.21A	11.21A	14.07A	11.26A	11.26A
Maximum Power Voltage -V _{mp} (V)	46.56V	43.72V	46.54V	46.76V	43.93V	46.74V	46.93V	44.11V	46.91V	47.13V	44.32V	47.12V
Maximum Power Current -I _{mp} (A)	13.21A	10.57A	11.11A	13.26A	10.61A	11.16A	13.32A	10.66A	11.21A	13.37A	10.70A	10.70A
Module Efficiency STC-η _m (%)	22.00%			22.18%			22.36%			22.54%		
Power Tolerance(W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.29 %/°C											
Voc Temperature Coefficient	-0.25 %/°C											
Isc Temperature Coefficient	+0.046 %/°C											

* Measurement Tolerance +/- 3%
 STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
 NOCT: Irradiance 800W /m², Ambient Temperature 20 °C, AM = 1.5, Wind Speed 1m/s

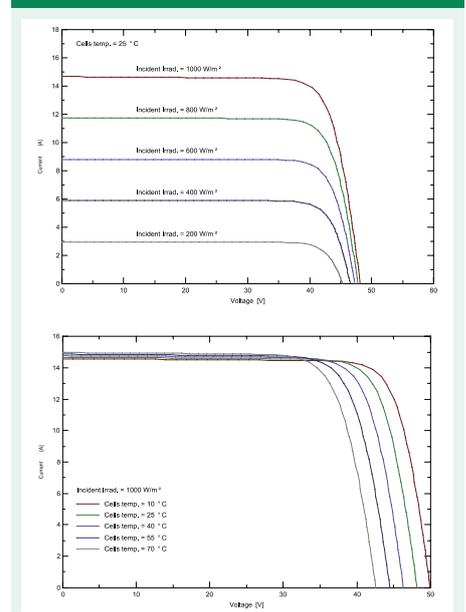
REAR SIDE POWER GAIN

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	682	713	744	775	806
Open Circuit Voltage -V _{oc} (V)	56.04	56.04	56.04	56.04	56.04
Short Circuit Current -I _{sc} (A)	15.35	16.04	16.74	17.44	18.14
Maximum Power Voltage -V _{mp} (V)	46.76	46.76	46.76	46.76	46.76
Maximum Power Current -I _{mp} (A)	14.59	15.25	15.91	16.58	17.24

APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	80%±5%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

I-V CURVE



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