

ELNSM54M-HC-HV-N Series

MB B HC MONOCRYSTALLINE PV MODULE 425-440 W



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 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

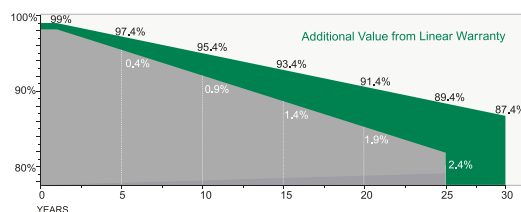
WARRANTY



15 Years
Guarantee On
Product



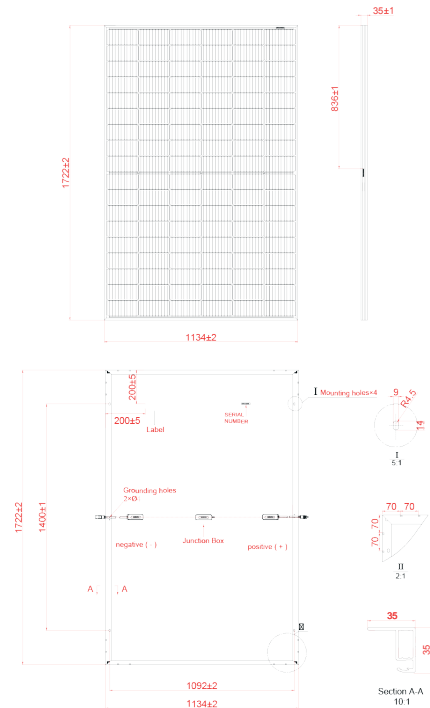
30 Years
Linear Power
Output Warranty



ELNSM54M-HC-HV-N Series

ELECTRICAL SPECIFICATIONS

Module Type	ELNSM54M-HC-HV-N-425		ELNSM54M-HC-HV-N-430		ELNSM54M-HC-HV-N-435		ELNSM54M-HC-HV-N-440	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	425	320	430	324	435	328	440	332
Maximum Power Voltage (Vmp)	32.10V	30.21V	32.30V	30.41V	32.50V	30.62V	32.70V	32.82V
Maximum Power Current (Imp)	13.24A	10.59A	13.32A	10.66A	13.39A	10.71A	13.47A	10.77A
Open Circuit Voltage (Voc)	38.70V	36.77V	38.90V	36.96V	39.10V	37.15V	39.30V	37.34V
Short Circuit Current (Isc)	13.91A	11.13A	13.99A	11.19A	14.07A	11.26A	14.15A	11.32A
Module Efficiency STC (%)	21.76%		22.02%		22.28%		22.53%	
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	1722 x 1134 x 35 mm	
Weight	21 kg	
Solar Cells	Topcon (108 pcs)	
Glass	3.2 mm AR coating tempered glass	
Frame	Anodized aluminium alloy	
Junction Box	IP68,3 diodes	
Output Cables*	4.0 mm², 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

Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	24
Pieces per Container	155	744

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

I-V Curve

