

ELNSM72M-HC-HV Series

**MB B HC BIFACIAL
MONOCRYSTALLINE
PV MODULE
540-550W**



Bifacial Black 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.



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

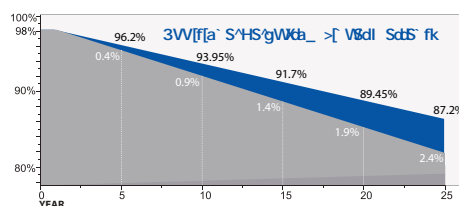
WARRANTY



12 Guarantee On Product



25 Linear Power Output Warranty



ELNSM72M-HC-HV Series

ELECTRICAL SPECIFICATIONS

Module Type	ELNSM72M-HC-HV-540			ELNSM72M-HC-HV-545			ELNSM72M-HC-HV-550		
	FRONT STC	FRONT NOCT	BACK STC	FRONT STC	FRONT NOCT	BACK STC	FRONT STC	FRONT NOCT	BACK STC
Maximum Power (Pmax)	540Wp	406Wp	378Wp	545Wp	409Wp	382Wp	550Wp	414Wp	385Wp
Open Circuit Voltage (Voc)	49.50V	46.18V	49.48V	49.60V	46.32V	49.58V	49.70V	46.40V	49.68V
Short Circuit Current (Isc)	13.81A	11.16A	9.74A	13.90A	11.23A	9.80A	14.00A	11.32A	9.87A
Maximum Power Voltage (Vmp)	41.55V	38.39V	41.61V	41.80V	38.41V	41.86V	42.05V	38.58V	42.10V
Maximum Power Current (Imp)	13.00A	10.59A	9.09A	13.04A	10.65A	9.13A	13.08A	10.73A	9.15A
Module Efficiency STC (%)	20.90%			21.10%			21.29%		
Power Tolerance (W)				(0, +4,99 W)					
Pmax Temperature Coefficient				-0.34 %/°C					
Voc Temperature Coefficient				-0.26 %/°C					
Isc Temperature Coefficient				+0.05 %/°C					
* Measurement Tolerance +/- 3%									
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5									
NOCT: Irradiance 800W/m ² , 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)	605	633	660	688	715
Open Circuit Voltage -V _{oc} (V)	49.70	49.70	49.70	49.70	49.70
Short Circuit Current -I _{sc} (A)	15.40	16.10	16.80	17.50	18.20
Maximum Power Voltage -V _{mp} (V)	42.05	42.05	42.05	42.05	42.05
Maximum Power Current -I _{mp} (A)	14.39	15.04	15.70	16.35	17.00

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

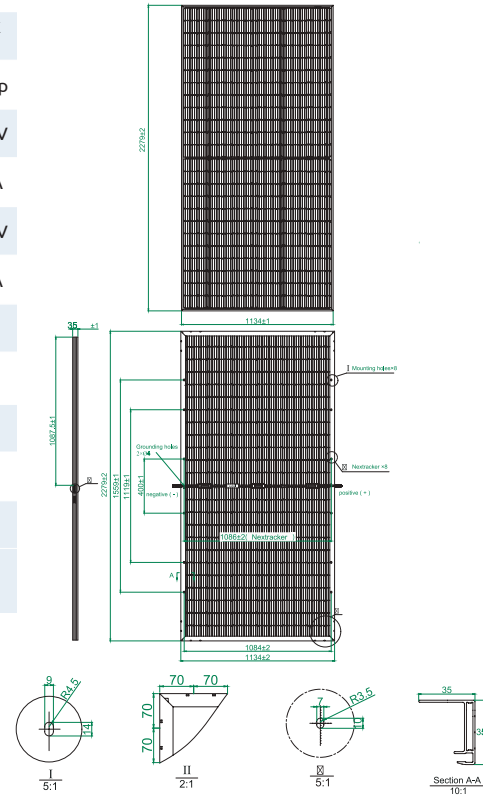
MEKANİK SPESİFİKASYONLAR

External Dimension	2279 x 1134 x 35 mm
Weight	27kg
Solar Cells	PERC Mono Crystalline (144 pcs)
Front Glass	3.2 mm AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes - MC4 Compatible
Output Cables*	4.0 mm 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	22
Pieces per Container	124	682



I-V CURVE

