

ELNSM72M-HC-HV Series



**MBB HC
MONOCRYSTALLINE
PV MODULE
440-455W**



Sirius 166M Series

Elin redefined the high-efficiency module series by integrating 166mm 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, and alkali, 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

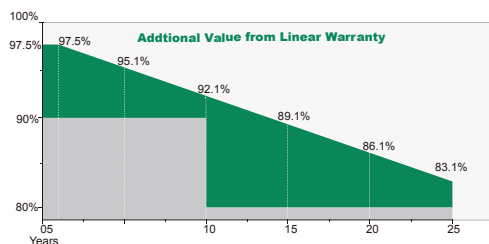
WARRANTY



12 Guarantee On Product



25 Linear Power Output Warranty



ELNSM72M-HC-HV Series

ELECTRICAL CHARACTERISTICS

Module Type	440 W		445 W		450 W		455 W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power at STC (Pmp)	440	328	445	332	450	336	455	340
Open Circuit Voltage (Voc)	49.7	45.4	49.9	45.6	50.10	45.80	50.30	46.00
Short Circuit Current (Isc)	11.27	9.10	11.34	9.17	11.41	9.24	11.48	9.31
Maximum Power Voltage (Vmp)	41.4	38.3	41.6	38.5	41.80	38.70	42.00	38.90
Maximum Power Current (Imp)	10.63	8.57	10.70	8.63	10.77	8.69	10.84	8.75
Module Efficiency at STC (η m)	20.24		20.47		20.70		20.93	
Power Tolerance	(0,+4.99)							
Maximum System Voltage	1500 VDC							
Maximum Series Fuse Rating	20A							

* 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 1 m / s

TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.36 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

MECHANICAL SPECIFICATIONS

External Dimensions	2094 x 1038 x 35 mm
Weight	23.5 kg
Solar Cells	PERC Mono Crystalline 166 x 83 mm (144pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes - MC4 Compatible
Output Cables*	4.0 mm ² , 350mm(+)/350mm(-) veya özelleştirilmiş uzunluk.
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

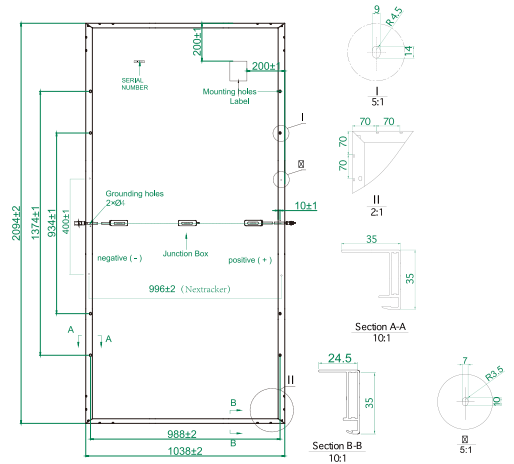
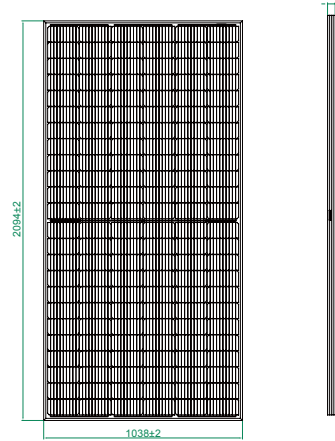
*Output cable lengths should be specified at the time of order.

PACKING CONFIGURATION

	2094 x 1038 x 35 mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	22
Pieces per Container	155	682

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

