

ELNSM60M-HC-HV Series



**MBB HC
MONOCRYSTALLINE
PV MODULE
445-460W**



Sirius 182M 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, 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

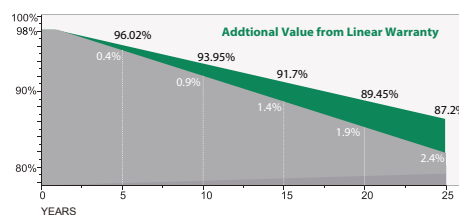
WARRANTY



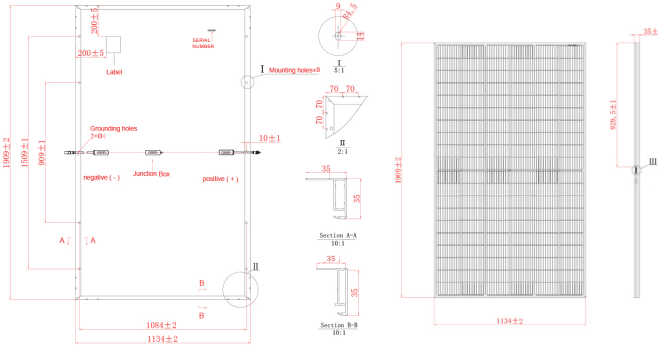
12 YEARS Guarantee On Product



25 YEARS Linear Power Output Warranty



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MECHANICAL SPECIFICATIONS	
External Dimension	1909 x 1134 x 35 mm
Weight	27.3 kg
Solar Cells	PERC Mono(120 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
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

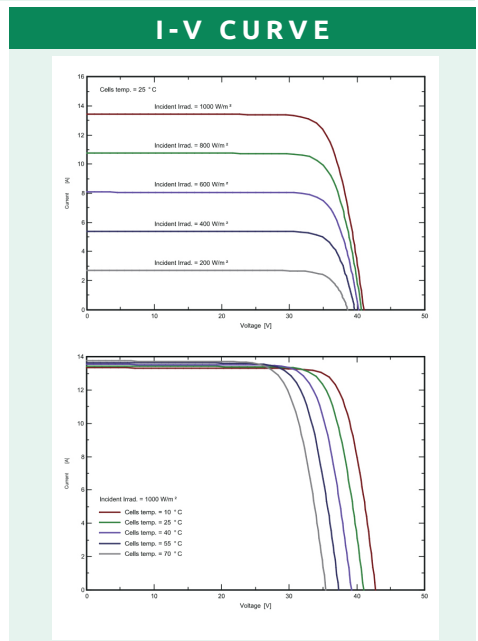
PACKING CONFIGURATION		
Container	20'GP	40'HQ
Pieces per Pallet	31+4*	31
Pallets per Container	5	24
Pieces per Container	155	744

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

ELECTRICAL CHARACTERISTICS									
Module Type	ELNSM60M-445-HC-HV		ELNSM60M-450-HC-HV		ELNSM60M-455-HC-HV		ELNSM60M-460-HC-HV		
STC	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	NOCT
Maximum Power -P _{mp} (W)	445	333	450	337	455	341	460	345	
Open Circuit Voltage -V _{oc} (V)	41.22	38.41	41.32	38.57	41.42	38.67	41.52	38.74	
Short Circuit Current -I _{sc} (A)	13.66	11.04	13.76	11.12	13.86	11.20	13.96	11.28	
Maximum Power Voltage -V _{mp} (V)	34.18	31.82	34.28	31.98	34.38	32.06	34.49	32.25	
Maximum Power Current -I _{mp} (A)	13.03	10.48	13.13	10.56	13.24	10.64	13.34	10.71	
Module Efficiency STC-η _m (%)	20.56		20.79		21.02		21.25		
Power Tolerance(W)	(0, 4.99W)								
Maximum System Voltage	1500V DC								
Maximum Series Fuse Rating	25 A								

* Power measurement tolerance: +/-3%
 STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

TEMPERATURE CHARACTERISTICS	
Pmax Temperature Coefficient	-0.34 %/ °C
Voc Temperature Coefficient	-0.26 %/ °C
Isc Temperature Coefficient	+0.05%/ °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C



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