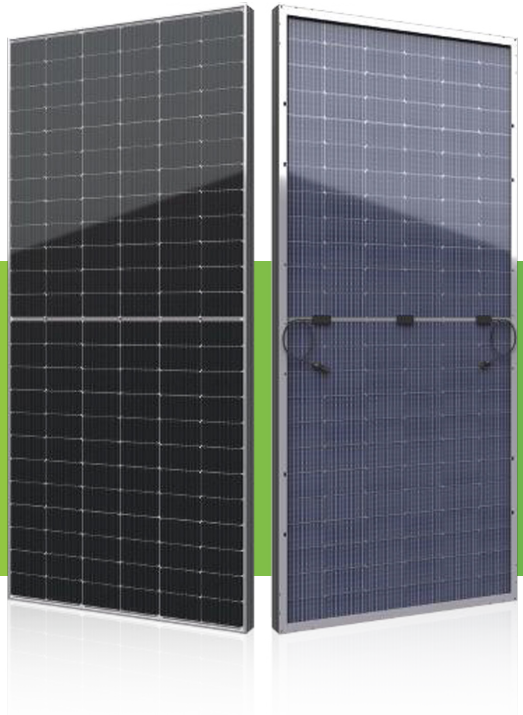
SIRIUS
powered by ELiN

ELiN

ELNSM72M-HC-HV Series



MBB HC BIFACIAL MONOCRYSTALLINE PV MODULE

540-555W

TOP BRAND PV COUNTRY EPC 2020

Bifacial 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

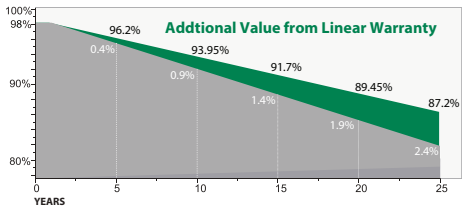
PRODUCT CERTIFICATION

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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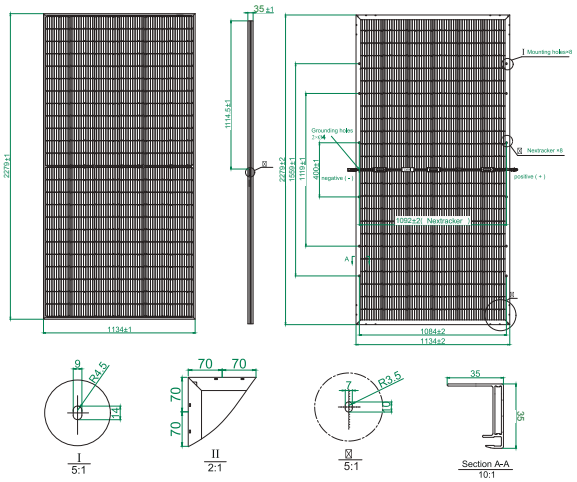


MECHANICAL SPESIFICATIONS

External Dimension	2279 x 1134 x 35 mm
Weight	27 kg
Solar Cells	PERC Mono crystalline(144pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables*	4.0mm2, 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+4*	31
Pallets per Container	4	22
Pieces per Container	124	682

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

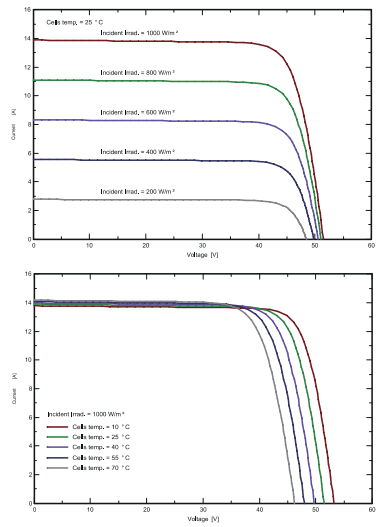
Module Type	ELNSM72M-540-HC-HV			ELNSM72M-545-HC-HV			ELNSM72M-550-HC-HV			ELNSM72M-555-HC-HV		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P_{mp}(W)	540	406	378	545	409	382	550	414	385	555	418	389
Maximum Power Voltage -V_{mp}(V)	41.55	38.39	41.61	41.80	38.41	41.86	42.05	38.58	42.10	42.31	38.68	42.34
Maximum Power Current -I_{mp}(A)	13.00	10.59	9.09	13.04	10.65	9.13	13.08	10.73	9.15	13.12	10.81	9.19
Open Circuit Voltage -V_{oc}(V)	49.50	46.18	49.48	49.60	46.32	49.58	49.70	46.40	49.68	49.80	46.50	49.78
Short Circuit Current -I_{sc}(A)	13.81	11.16A	9.74	13.90	11.23	9.80	14.00	11.32	9.87	14.10	11.41	9.84
Module Efficiency STC-η_m (%)		20.90%			21.10%			21.29%			21.48%	
Power Tolerance(W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.26 %/°C											
Isc Temperature Coefficient	+0.05 %/°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

Güç Kazancı	10%	15%	20%	25%	30%
Maksimum Güç -P_{mp}(W)	605	633	660	688	715
Açık Devre Gerilimi -V_{oc}(V)	49.70	49.70	49.70	49.70	49.70
Kısa Devre Akımı -I_{sc}(A)	15.40	16.10	16.80	17.50	18.20
Maksimum Güç Gerilimi -V_{mp}(V)	42.05	42.05	42.05	42.05	42.05
Maksimum Güç Akımı -I_{mp}(A)	14.39	15.04	15.70	16.35	17.00

I-V CURVE



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%±5%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa