

ELNSM72M-HC-HV-N Series



**MBB HC BIFACIAL
MONOCRYSTALLINE
PV MODULE
575-590W**



BiFacial_N-TYPE Series

Sirius redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cutcell 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 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

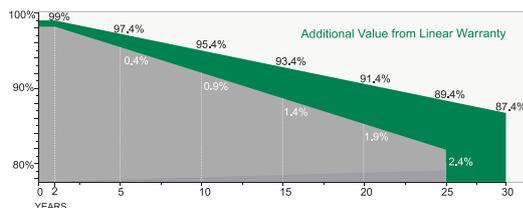
WARRANTY



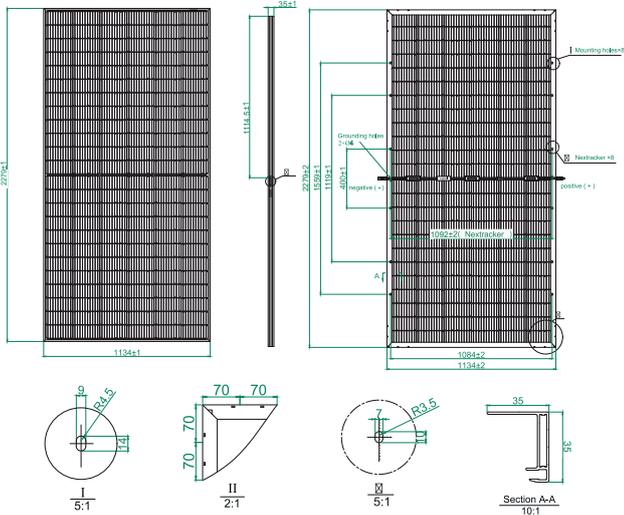
12 YEARS Guarantee On Product



30 YEARS Linear Power Output Warranty



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MECHANICAL SPECIFICATIONS

External Dimension	2279 x 1134 x 35 mm
Weight	27 kg
Solar Cells	Topcon(144 adet)
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
*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-HC-HV-N-575			ELNSM72M-HC-HV-N-580			ELNSM72M-HC-HV-N-585			ELNSM72M-HC-HV-N-590		
	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)	575	433	460	580	437	464	585	441	468	590	445	472
Open Circuit Voltage -V _{oc} (V)	51.90V	49.31V	51.88V	52.10V	49.50V	52.08V	52.30V	49.69V	52.28V	52.50V	49.88V	52.47V
Short Circuit Current -I _{sc} (A)	14.01A	11.21A	11.21A	14.07A	11.26A	11.26A	14.13A	11.30A	11.30A	14.19A	11.35A	11.34A
Maximum Power Voltage -V _{mp} (V)	43.20V	40.63V	43.18V	43.40V	40.86V	43.38V	43.60V	41.05V	43.58V	43.80V	41.24V	43.78V
Maximum Power Current -I _{mp} (A)	13.32A	10.66A	10.66A	13.37A	10.70A	10.70A	13.43A	10.74A	10.75A	13.49A	10.78A	10.78A
Module Efficiency STC-η _m (%)	22.26%			22.45%			22.65%			22.85%		
Power Tolerance(W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.29 %/°C											
Voc Temperature Coefficient	-0.25 %/°C											
Isc Temperature Coefficient	+0.046 %/°C											
* Measurement Tolerance +/- 3%												
STC: Irradiance 1000 W/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)	644	673	702	731	761
Open Circuit Voltage -V _{oc} (V)	52.30	52.30	52.30	52.30	52.30
Short Circuit Current -I _{sc} (A)	15.54	16.25	16.96	17.66	18.37
Maximum Power Voltage -V _{mp} (V)	43.60	43.60	43.60	43.60	43.60
Maximum Power Current -I _{mp} (A)	14.77	15.44	16.12	16.79	17.46

APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	80%±5%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

I-V CURVE

