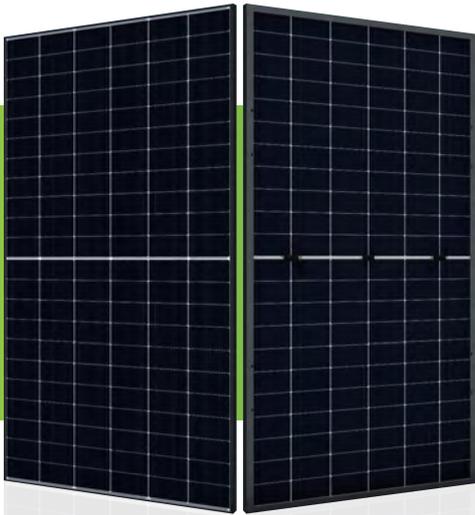


**ELNSM66M-HC-HV-N Series**

**MBB HC BIFACIAL  
RECTANGULAR TOPCON CELL  
PV MODULE  
605 - 630W**



**Bifacial N Type Glass Backsheet Series**

Sirius redefined the high-efficiency module series by integrating 182\*210 mm silicon wafers with multi-busbar and half-cutcell technologies. Sirius combined creative technology with 182\*210 mm N Type module. This caused effectively and extremely improved the module efficiency and power output.

**KEY FEATURES**



With the composite frame, lower carbon footprint, severe weather endurance, enhanced PID protection and exceptional corrosion shielding.  
*(These features are only valid when the composite frame is used.)*



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 hailstones  
• 2400 Pa wind load and 5400 Pa snow load.  
• PID free



3 times EL test to ensure best quality

**QUALITY SYSTEM**

- ISO 9001:2015 / Quality Management System
- ISO 14001:2015 / Environmental Management System
- ISO 45001: 2018 / Occupation Health Safety Management System
- ISO 50001:2018 / Energy Management System
- ISO 27001:2013 / Information Security Management System
- ISO 10002:2018 / Customer Satisfaction Management System
- ISO 37001:2016 / Anti-bribery Management Systems
- ISO 26000:2021 / Social Responsibility Management System

**PRODUCT CERTIFICATION**



IEC 61215 / 61730 , IEC 62804 (PID)  
TS EN 61215 , TS EN 61730  
UL 61730-1 , UL 61730-2

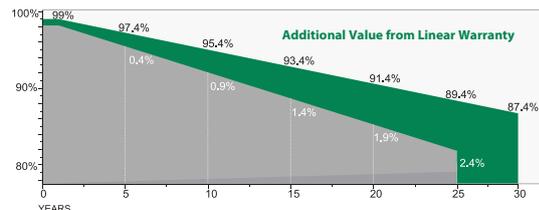
**WARRANTY**



**12** YEARS  
Guarantee On Product



**30** YEARS  
Linear Power Output Warranty



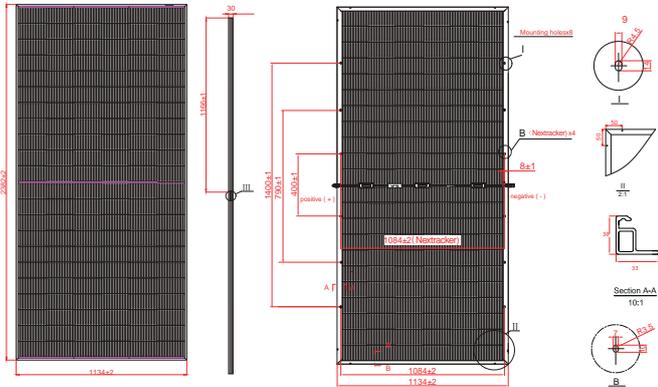


# SIRIUS

powered by **ELiN**



## ELNSM66M-HC-HV-N Series



### ELECTRICAL SPECIFICATIONS (STC)

Module Type: ELNSM66M-HC-HV-N

	605	610	615	620	625	630
Maximum Power-P <sub>mp</sub> (W)	605	610	615	620	625	630
Open Circuit Voltage-V <sub>oc</sub> (V)	48.72V	48.92V	49.12V	49.32V	49.52V	49.72V
Short Circuit Current-I <sub>sc</sub> (A)	15.82A	15.87A	15.92A	15.97A	16.02A	16.07A
Maximum Power Voltage-V <sub>mp</sub> (V)	40.51V	40.71V	40.91V	41.11V	41.31V	41.51V
Maximum Power Current-I <sub>mp</sub> (A)	14.94A	14.99A	15.04A	15.09A	15.14A	15.19A
STC Module Efficiency-η <sub>m</sub> (%)	22.40%	22.58%	22.77%	22.95%	23.14%	23.32%

\*Measurement Tolerance +/-3  
STC Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5  
BNPI: front: 1000 W/m<sup>2</sup>/rear: 135 W/m<sup>2</sup>

### REAR SIDE POWER GAIN (ELNSM48M-HC-HV-N-610)

Module Type ELNSM66M-HC-HV-N

	10%	15%	20%	25%	30%
Power Gain	10%	15%	20%	25%	30%
Maximum Power-P <sub>mp</sub> (W)	671	702	732	763	793
Open Circuit Voltage-V <sub>oc</sub> (V)	48.92	48.92	48.92	48.92	48.92
Short Circuit Current-I <sub>sc</sub> (A)	17.46	18.25	19.04	19.84	20.63
Maximum Power Voltage-V <sub>mp</sub> (V)	40.71	40.71	40.71	40.71	40.71
Maximum Power Current-I <sub>mp</sub> (A)	16.49	17.24	17.99	18.74	19.49

### TEMPERATURE PARAMETERS

Power Tolerance (W)	(0, +4.99)
P <sub>max</sub> Temperature Coefficient	-0.29 %/°C
V <sub>oc</sub> Temperature Coefficient	-0.25 %/°C
I <sub>sc</sub> Temperature Coefficient	+0.046 %/°C

### APPLICATION CONDITIONS

Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	30A
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature	45+2°C
Bifaciality	80%±5%
Mechanical Load	Front Side 5400 Pa / Rear Side 2400 Pa
I <sub>sc</sub> Temperature Coefficient	UL Type 29 / C Class

Specifications included in this datasheet are subject to change without prior notice.  
Made in Türkiye.

### MECHANICAL SPECIFICATIONS

External Dimension	2382 x 1134 x 30 mm
Weight	30 kg
Solar Cells	Topcon 182 x 105 mm (132 pcs)
Glass	3.2 mm AR coating tempered glass, low iron
Frame*	Composite(black)
Junction Box	IP68,3 diodes
Output Cables	4.0mm <sup>2</sup> (IEC), 12 AWG (UL)
Cable Length**	350 mm (+) / 350 mm (-) or Customized Length
Packing Configuration	36pcs / Pallet, 720 pcs / 20 Pallet / 40' Container

\*The frame is constructed from composite materials. If an aluminum frame is selected, it can be customized as silver/black.

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

### ELECTRICAL SPECIFICATIONS (BNPI)

Module Type: ELNSM66M-HC-HV-N

	670	676	681	687	693	698
Maximum Power-P <sub>mp</sub> (W)	670	676	681	687	693	698
Open Circuit Voltage-V <sub>oc</sub> (V)	48.80V	49.00V	49.20V	49.40V	49.60V	49.80V
Short Circuit Current-I <sub>sc</sub> (A)	17.53A	17.58A	17.64A	17.69A	17.75A	17.81A
Maximum Power Voltage-V <sub>mp</sub> (V)	40.59V	40.79V	40.99V	41.19V	41.39V	41.59V
Maximum Power Current-I <sub>mp</sub> (A)	16.51A	16.57A	16.62A	16.68A	16.73A	16.78A

BNPI: Front Side 1000 W/m<sup>2</sup>, Rear Side 135 W/m<sup>2</sup>.

### I - V CURVE

