

ELNSM66M-HC-HV-N Series

**MBB HC
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

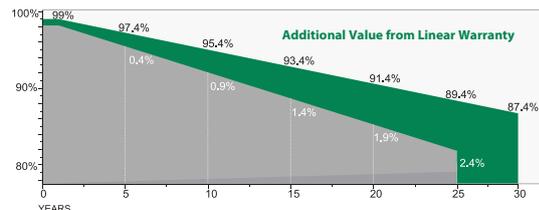
WARRANTY



12 Years
Guarantee on
Product



30 Years
Linear Power
Output Warranty



ELNSM66M-HC-HV-N Series

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 ² (IEC), 12 AWG (UL) |
| Cable Length** | 350 mm (+) / 350 mm (-) or Customized Length |
| Packing Configuration | 36 pcs / 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 (STC)

Module Type: ELNSM66M-HC-HV-N

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

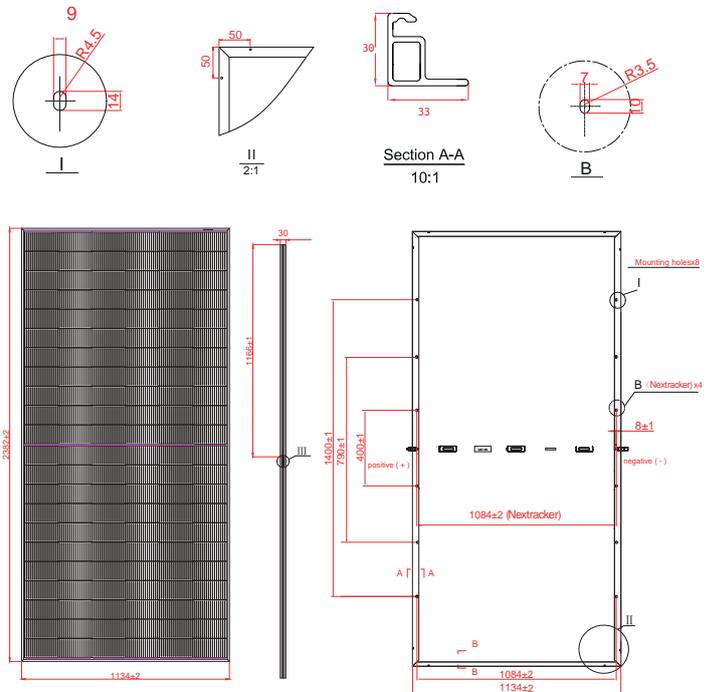
*Measurement Tolerance +/-
 STC Irradiance 1000W/m²; module temperature 25°C, AM=1.5
 BNP: front 1000 W/m² rear 135 W/m²

TEMPERATURE PARAMETERS

| | |
|--|-------------|
| Power Tolerance (W) | (0, +4.99) |
| P _{max} Temperature Coefficient | -0.29 %/°C |
| V _{oc} Temperature Coefficient | -0.25 %/°C |
| I _{sc} Temperature Coefficient | +0.046 %/°C |

APPLICATION CONDITIONS

| | |
|---|--|
| Maximum System Voltage | 1500 VDC |
| Maximum Series Fuse Rating | 30 A |
| 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 _{sc} Temperature Coefficient | UL Type 29 / C Class |



I - V CURVE

