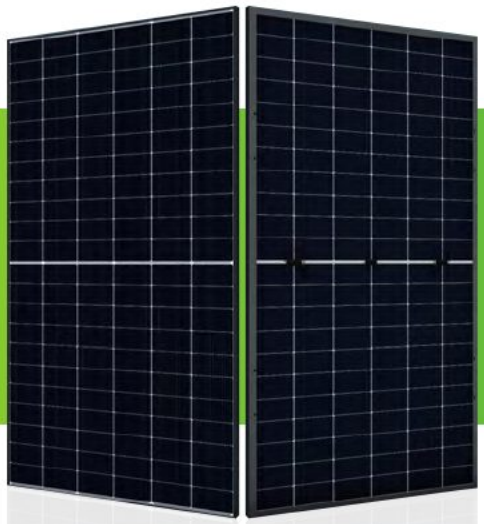
SIRIUS PHOTOVOLTAIC PV
powered by ELiN

ELiN

ELNSM66M-HC-HV-N Series

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



Bifacial N Type Glass Glass 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 composit frame is used.)

Less mismatch to get more power.

Less power loss by minimizing the shading impact.

Competitive low ligh 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

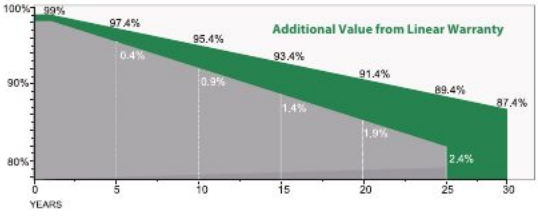
PRODUCT CERTIFICATION

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



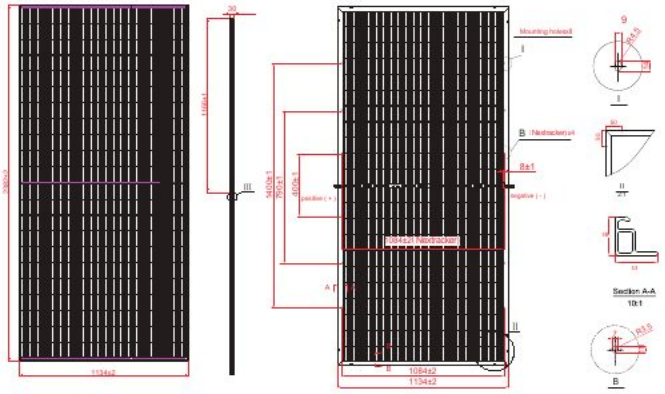


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MECHANICAL SPECIFICATIONS

External Dimenson	2382 x 1134 x 30 mm
Weight	34.3 kg
Solar Cells	Topcon 182 x 105 mm (132 pcs)
Glass	Dual Glass 2.0+2.0 mm AR coating tempered glass, low iron
Frame*	Composite(black)
Junction Box	IP68,3 diodes
Output Cables	4.0mm² (IEC), 12 AWG (UL)
Cable Length**	350 mm (+) / 350 mm (-) or Customized Lenght
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 (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 Effiency-η_m (%)	22.40%	22.58%	22.77%	22.95%	23.14%	23.32%

**Measurement Tolerance +/- 3%*
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5
BNPI: front 1000 W/m² rear 135 W/m²

ELECTRICAL SPECIFICATIONS (BNPI)

Module Type : ELNSM66M-HC-HV-N

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

BNPI: Front Side 1000 W/m², Rear Side 135 W/m².

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

MModule Type ELNSM66M-HC-HV-N

Power Gain	10%	15%	20%	25%	30%
Maximum Power-P_{mp} (W)	671	702	732	763	793
Open Circuit Voltage-V_{oc} (V)	48.92	48.92	48.92	48.92	48.92
Short Circuit Current-I_{sc} (A)	17.46	18.25	19.04	19.84	20.63
Maximum Power Voltage-V_{mp} (V)	40.71	40.71	40.71	40.71	40.71
Maximum Power Current-I_{mp} (A)	16.49	17.24	17.99	18.74	19.49

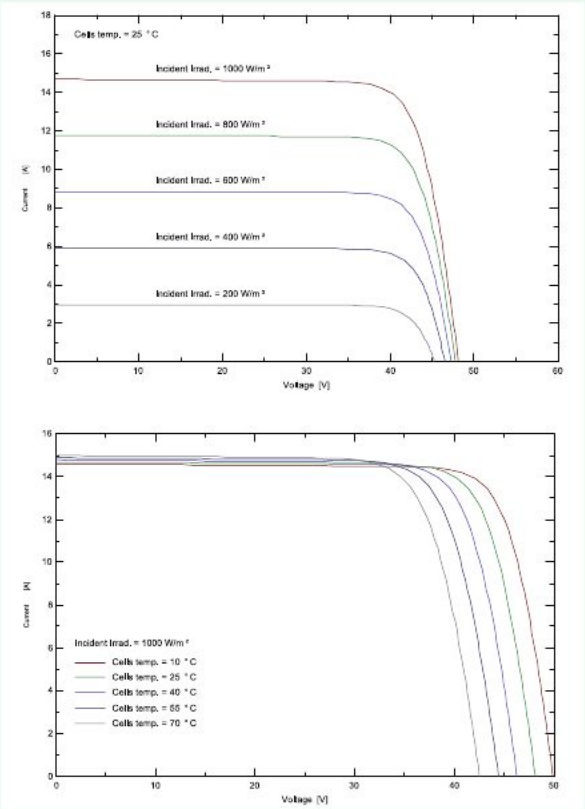
TEMPERATURE PARAMETERS

Power Tolerance (W)	(0, +4.99)
Pmax Temperature Coefficient	-0.29 % / °C
Voc Temperature Coefficient	-0.25 % / °C
Isc Temperature Coefficient	+0.046 % / °C

APPLICATION CONDITIONS

Maximum System Voltage	1500 V DC
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
Isc Temperature Coefficient	UL Type 29 / C Class

I - V CURVE



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

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