SIRIUS PV
powered by ELiN

ELNSM54M-HC-N Series

DC:BS & DC:BS-E & DC:BS-E-J & DC:BS-E-J-ES-P & DC:F-E
DC:BS-E-J-ES-P-BR & DC:F-BS-E-J & DC:F-BS-E-J-ES-P-BR

MBB HC MONOCRYSTALLINE PV MODULE 440-465W



Sirius 182MM N Type Series

Sirius redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell 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
- Ideal choice for rooftop and commercial scale projects by reduced BOS and improve ROI.
- Outstanding reliability for stringent environment condition :
  - Sand, acid, salt and hail stones,
  - 5400pa wind load and 5400pa snow load.
  - PID FREE

QUALITY SYSTEM

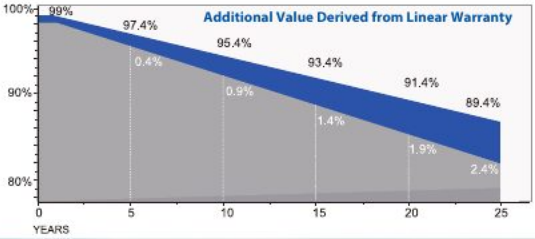
TS EN 61215, TS EN 61730
IEC 61215, IEC61730, IEC 62804 (PID Free)
UL 61730-1, UL 61730-2
ISO 9001:2015 / Quality Management System
ISO 14001:2015 / Environmental Management System
ISO 45001: 2018 / Occupational Health and Safety Management System ISO 50001:2018 / Energy Management System
ISO 27001:2013 / Information Security Management System
ISO 10002:2018 / Customer Satisfaction Management System
ISO 37001:2016 / Anti-Corruption Management System
ISO 26000:2021 / Social Responsibility Management System

PRODUCT CERTIFICATION

WARRANTY

25 YEARS Up to Guarantee on Product

25 YEARS Linear Power Output Warranty





SIRIUS PHOTOVOLTAIC PV

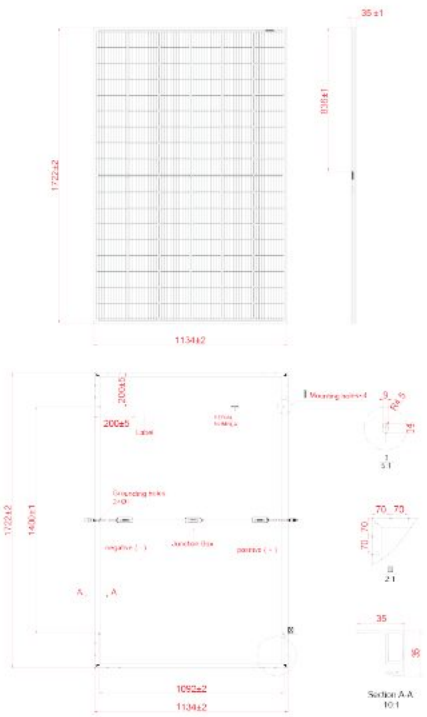
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ELNSM54M-HC-N Series

ELECTRICAL SPECIFICATIONS

Module Type	ELNSM54M-HC-N-440	ELNSM54M-HC-N-445	ELNSM54M-HC-N-450	ELNSM54M-HC-N-455	ELNSM54M-HC-N-460	ELNSM54M-HC-N-465
	STC	**STC**	**STC**	**STC**	**STC**	**STC**
Maximum Power (Pmax)	440	445	450	455	460	465
Maximum Power Voltage (Vmp)	33.76V	33.97V	34.18V	34.34V	34.50V	34.65V
Maximum Power Current (Imp)	13.04A	13.10A	13.17A	13.25A	13.34A	13.42A
Open Circuit Voltage (Voc)	39.30V	39.50V	39.70V	39.90V	40.10V	40.30V
Short Circuit Current (Isc)	13.81A	13.85A	13.89A	13.94A	13.99A	14.05A
Module Efficiency STC (%)	22.54%	22.79%	23.05%	23.30%	23.57%	23.81%
Power Tolerance(W)	(0, +4,99 W)					
Maximum System Voltage	1500V DC					
Maximum Series Fuse Rating	25 A					

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



TEMPERATURE CHARACTERISTICS

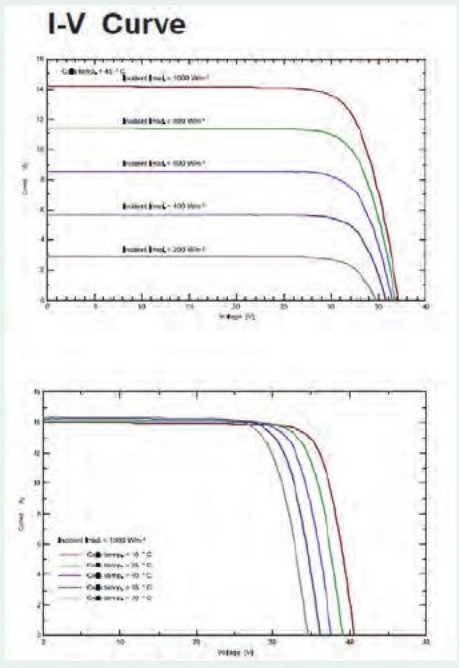
Pmax Temperature Coefficient	-0.29 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°C
Operating Temperature	-40 ~ +85 °C
Fire Performance	Type 1

MECHANICAL SPECIFICATIONS

External Dimensions	1722 x 1134 x 35 mm (67.80" x 44.65" x 1.38")
Weight	21.5 kg ± 0.5 kg (47.39 lbs ± 1.10 lbs)
Solar Cells	N Type cells (108 pcs)
Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes
Output Cables*	4.0 mm², 1350mm(+)/1350mm(-) or Customized Length
Mechanical Load	Front side 5400Pa / Rear side 5400Pa

* *Bus Ribbon Color: Domestic Content bus ribbons may be silver or black, depending on availability at the time of order, should be specified at the time of order.*

I-V CURVE



PACKING CONFIGURATION

Trucks	53ft Truck
Pieces per Pallet	31
Pallets per Trucks	29
Pieces per Trucks	899

ELIN reserves the right to change the technical specifications and design data in the catalog without prior notice.

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