SIRIUS
powered by ELIN

ELNSM54M-HC-N Series

DC:BS & DC:BS-E & DC:BS-E-J & DC:F-BS-E-J



MBB HC MONOCRYSTALLINE PV MODULE

440-465W

ASSEMBLED IN USA

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

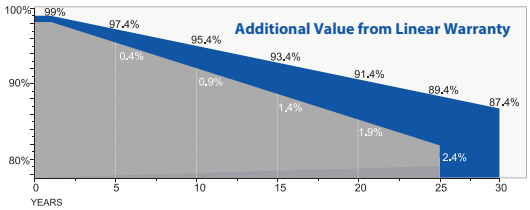
TS EN 61215, TS EN 61730
IEC 61215, IEC61730, IEC 62804 (PID Free)
UL 61730-1, UL 61730-2
ISO 9001:2015 / Quality Management System
ISO 14001:2015 / Environmental Management System
ISO 45001: 2018 / Occupational Health and Safety Management System ISO 50001:2018 / Energy Management System
ISO 27001:2013 / 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

Up to 25 YEARS **Guarantee on Product**

30 YEARS **Linear Power Output Warranty**





SIRIUS PHOTOVOLTAIC PV

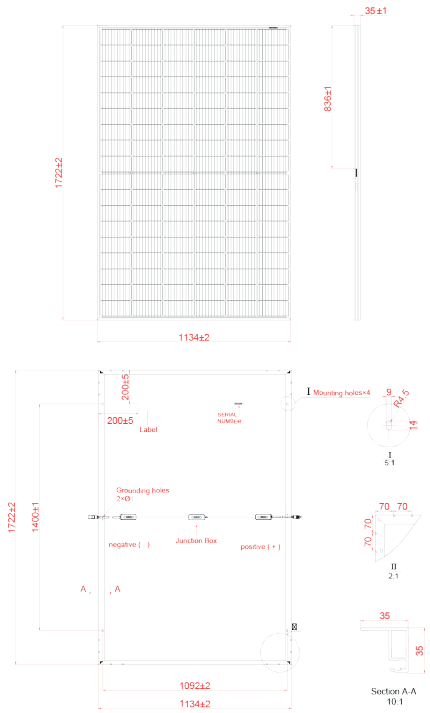
powered by eLiN

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)	33.10V	33.33V	33.52V	33.73V	33.94V	34.15V
Maximum Power Current (Imp)	13.30A	13.38A	13.44A	13.51A	13.58A	13.64A
Open Circuit Voltage (Voc)	38.99V	39.10V	39.21V	39.32V	39.42V	39.52V
Short Circuit Current (Isc)	13.69A	13.70A	13.71A	13.72A	13.73A	13.74A
Module Efficiency STC (%)	22.54%	22.83%	23.07%	23.34%	23.60%	23.85%
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

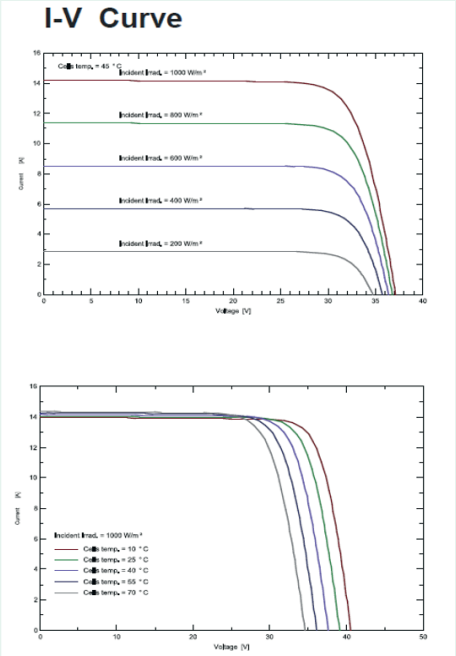
Pmax Temperature Coefficient	-0.29 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°C
Operating Temperature	-40 ~ +85 °C
Fire Performance	Type 1

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
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

** Output cable lengths 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.

©Copyright 2022 Elin