SIRIUS

powered by eLiN

ELNSM54M-HC Series

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

MBB HC MONOCRYSTALLINE PV MODULE 400-415W

Monofacial Black Series

Sirius redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Sirius panel combined creative technology effectively and extremely improve the module efficiency and power output.

KEY FEATURES

- Less mismatch to get more power
- Our preselected technology features a zero gap cell layout, resulting in module efficiency up to 21.25%
- 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.
- In stringent environment condition :
  - Sand, acid, salt and hail stones,
  - 5400pa wind load and 5400pa snow load.
  - PID FREE

QUALITY SYSTEM

ISO 9001:2015, ISO 14001:2015, ISO 45001: 2018,
ISO 27001:2013, ISO 10002:2004

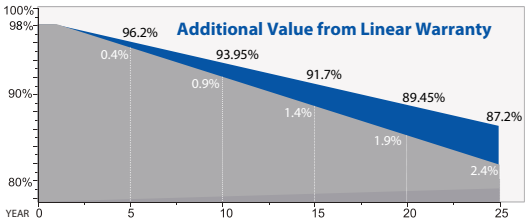
PRODUCT CERTIFICATION

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

WARRANTY

Up to 25 YEARS **Guarantee On Product**

25 YEARS **Linear Power Output Warranty**



* For PERC Monocyrstal bifacial MODULES: less than 2.0% in the first year, thereafter less than 0.45% per year, ending with no less than 87.2% in the 25th year after the Warranty Start Date. The actual output power is calculated as follows·
Actual Power Output (Year=1) ≥ Nominal Power * (1 - 2%)
Actual Power Output (Year=N, 2≤N≤25) ≥ Nominal Power *(1 -[2% + 0.45% *(N-1)])

SIRIUS PHOTOVOLTAIC PV

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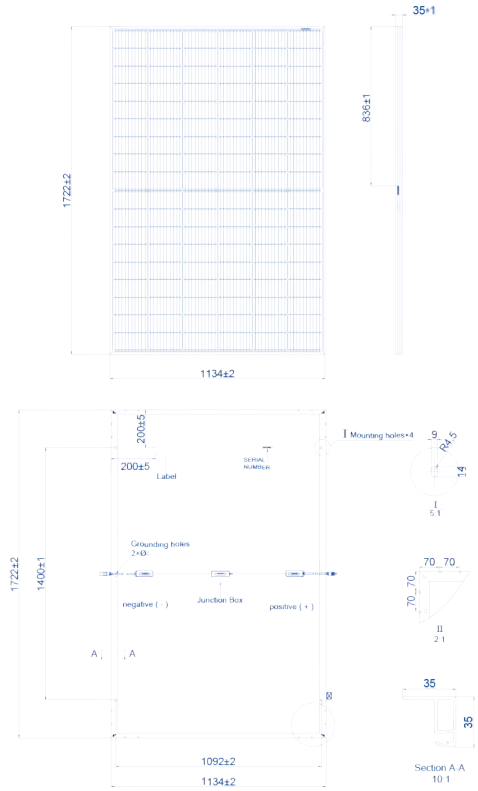
ELECTRICAL SPECIFICATIONS

Module Type	ELNSM54M-HC-400W		ELNSM54M-HC-405W		ELNSM54M-HC-410W		ELNSM54M-HC-415W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	400	301	405	304	410	308	415	311
Open Circuit Voltage (Voc)	37.12	34.64	37.22	34.73	37.32	34.81	37.42	34.90
Short Circuit Current (Isc)	13.60	10.99	13.70	11.07	13.80	11.15	13.90	11.23
Maximum Power Voltage (Vmp)	30.81	28.82	30.93	28.91	31.05	29.05	31.16	29.19
Maximum Power Current (Imp)	12.99	10.44	13.10	10.51	13.21	10.59	13.32	10.66
Module Efficiency STC (%)	20.48		20.74		21.00		21.25	
Power Tolerance (W)	(0 + 4,99 W)							
Pmax Temperature Coefficient	-0.34 %/°C							
Voc Temperature Coefficient	-0.26 %/°C							
Isc Temperature Coefficient	+0.05 %/°C							

** Measurement Tolerance +/- 3%*
STC: Irradiance 1000W/m2, module temperature 25°C, AM=1.5
NOCT: Irradiance 800W/m2, Ambient Temperature 20°C, AM=1.5, Wind Speed1m/s



APPLICATION CONDITIONS

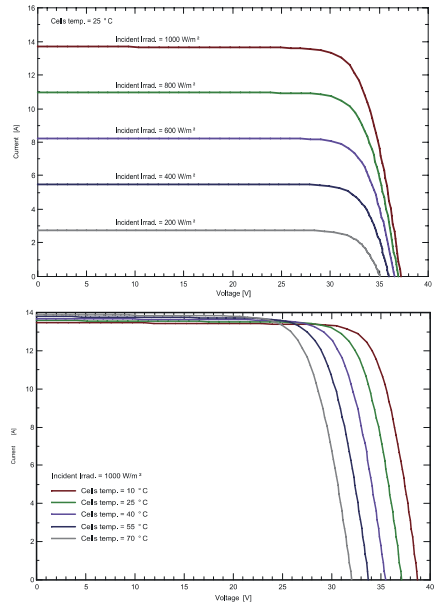
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Mechanical Load	Front Side 5400Pa/ Rear Side 5400Pa
Fire Performance	Type 1

MECHANICAL SPECIFICATIONS

External Dimension	1722 x 1134 x 35 mm (67.80" x 44.65" x 1.38")
Weight	21.5 kg ± 0.5 kg (47.40 lbs ± 1.10 lbs)
Solar Cells	PERC Mono Crystalline (108 pcs)
Glass	3.2 mm AR coating tempered glass
Frame	Black anodized aluminium alloy
Junction Box	IP68,3 diodes
Output Cables*	4.0 mm², 1350 mm(+)/1350 mm(-) or Customized Length
Connector	Staubli MC4 or EVO2

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

I-V CURVE



PACKING CONFIGURATION

	1722x 1134 x 35 mm
Container	53 ft Truck
Pieces per Pallet	31
Pallets per Container	29
Pieces per Container	899

Assembled in Turkey