SIRIUS PHOTOVOLTAIC PV

powered by ELiN

ELiN

ELNSM54M-HC-HV Series

MBB HC BIFACIAL MONOCRYSTALLINE PV MODULE 400-415W

TOP BRAND PV COUNTRY EPC 2020

Bifacial Black Series

Elin 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 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 utility and commercial scale projects by reduced BOS and improve ROI.
- In stringent environment condition :
  - Sand, acid, salt and hail stones,
  - 2400pa wind load and 5400pa snow load.
  - PID FREE.
- 3 times EL test to ensure best quality.

QUALITY SYSTEM

ISO 9001:2015, ISO 14001:2015, ISO 45001: 2018, ISO 27001:2013, ISO 10002: 2018, ISO 26000:2021, ISO 37001:2016, ISO 50001:2018

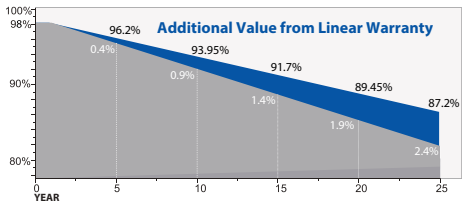
PRODUCT CERTIFICATION

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

WARRANTY

12 YEARS Guarantee On Product

25 YEARS Linear Power Output Warranty



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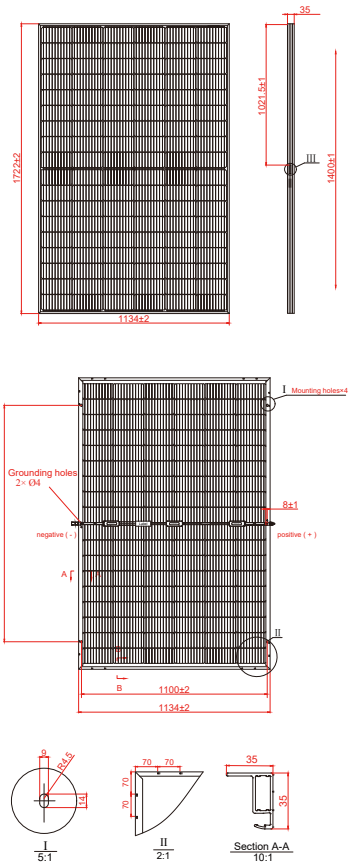


ELECTRICAL SPECIFICATIONS

Module Type	ELNSM54M-HC-HV-400			ELNSM54M-HC-HV-405			ELNSM54M-HC-HV-410			ELNSM54M-HC-HV-415		
	FRONT STC	FRONT NOCT	BACK STC	FRONT STC	FRONT NOCT	BACK STC	FRONT STC	FRONT NOCT	BACK STC	FRONT STC	FRONT NOCT	BACK STC
Maximum Power (Pmax)	400Wp	301Wp	280Wp	405Wp	304Wp	284Wp	410Wp	308Wp	287Wp	415Wp	311Wp	291Wp
Open Circuit Voltage (Voc)	37.12V	36.64V	37.10V	37.22V	34.732V	37.20V	37.32V	34.81V	37.30V	37.42V	34.90V	37.40V
Short Circuit Current (Isc)	13.60A	10.99A	9.59A	13.70A	11.07A	9.66A	13.80A	11.15A	9.73A	13.90A	11.23A	9.80A
Maximum Power Voltage (Vmp)	30.81V	28.82V	30.80V	30.93V	28.91V	30.98V	31.05V	29.05V	31.03V	31.16V	29.19V	31.17V
Maximum Power Current (Imp)	12.99A	10.44A	9.10A	13.10A	10.51A	9.17A	13.21A	10.59A	9.25A	13.32A	10.66A	9.34A
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

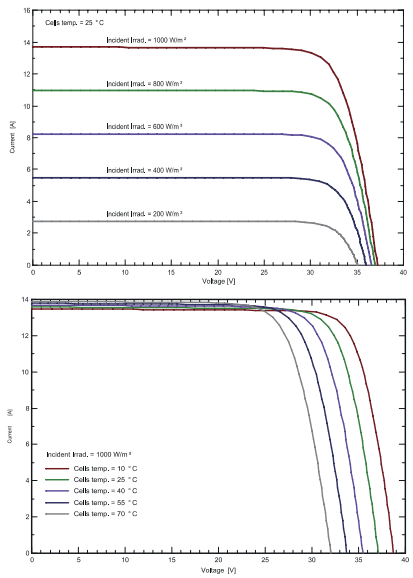
REAR SIDE POWER GAIN

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P_{mp}(W)	451	472	492	513	533
Open Circuit Voltage -V_{oc}(V)	37.32	37.32	37.32	37.32	37.32
Short Circuit Current -I_{sc}(A)	15.18	15.87	16.56	17.25	17.94
Maximum Power Voltage -V_{mp}(V)	31.05	31.05	31.05	31.05	31.05
Maximum Power Current -I_{mp}(A)	14.53	15.19	15.85	16.51	17.17

APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±10%
Mechanical Load	Front Side 5400Pa/ Rear Side 2400Pa

I-V CURVE



MECHANICAL SPESIFICATIONS

External Dimension	1722 x 1134 x 35 mm
Weight	19.0 kg
Solar Cells	PERC Mono Crystalline (108 pcs)
Front Glass	3.2 mm AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes
Output Cables*	4.0 mm², 350mm(+)/350mm(-) or Customized Length

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

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	5	24
Pieces per Container	155	744

ELİN A.Ş. reserves the right to change the technical specifications and design data in the catalog without prior notice.
Made in Türkiye.