

ELNSM72M-HC Series

MBB HC BIFACIAL MONOCRYSTALLINE

PV MODULE





BiFacial 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 improved 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%



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



In stringent environment condition: Sand, acid, salt and hail stones, 2400pa 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









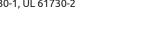
















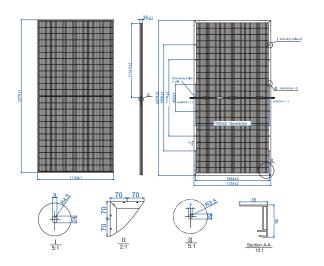
25 Linear Power **Output Warranty**



^{*} 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 follow



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MECHANICAL SPECIFICATIONS			
External Dimension	2279 x 1134 x 35 mm (89.72" x 44.65" x 1.38")		
Weight	27 kg (59.5 lbs)		
Solar Cells	PERC Mono crystalline(144pcs)		
Front Glass	3.2mm AR coating semi-tempered glass, low iron		
Frame	Anodized aluminium alloy		
Junction Box	IP68, 3 diodes		
Output Cables*	4.0mm2, 250mm(+)/350mm(-) or Customized Length		
Connector	MC4 compatible or staubli (should be specified at the time of order)		
* Output cable lengths should be specified at the time of order.			

PACKING CONFIGURATION					
Container		53 ft Truck			
Pieces per Pallet		31			
Pallets per Container		20			
Pieces per Container		620			

* 31+4 pieces per pallet is the special package which only suits for container transport.

Module Type	ELNSM-540-72M-HC	ELNSM-545-72M-HC	ELNSM-550-72M-HC	ELNSM-555-72M-HC
STC	Front STC	Front STC	Front STC	Front STC
Maximum Power -P _{mp} (W)	540	545	550	555
Open Circuit Voltage -V _{oc} (V)	49.50	49.75	49.90	50.02
Short Circuit Current -I _{sc} (A)	13.81	13.93	14.00	14.07
Maximum Power Voltage -V _{mp} (V)	41.55	41.80	41.96	42.11
Maximum Power Current -I _{mp} (A)	13.00	13.04	13.11	13.18
Module Efficiency STC- η_m (%)	20.9	21.0	21.2	21.5
Power Tolerance(W)	(0 + 4.99W)			
Pmax Temperature Coefficient	-0.34 %/ C			
Voc Temperature Coefficient	-0.26 %/ C			
Isc Temperature Coefficient	+0.05 %/ C			

^{*} Measurement Tolerance +/- 3%

STC: lrradiance 1000 W/m² module temperature 25°C AM=1.5

NOCT: Irradiance 800W/m2, Ambient Temperature $20 \, ^{\circ}$ C, AM = 1.5, Wind Speed $1 \, \text{m/s}$

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFERENCES TO %10 SOLAR ILLUMINANCE RATIO)

Туре	ELNSM-540-72M- HC-BF	ELNSM-545-72M- HC-BF	ELNSM-550-72M- HC-BF	
Maximum Power -P _{mp} (W)	578	583	589	
Open Circuit Voltage -V _{oc} (V)	49.93	50.03	50.21	
Short Circuit Current -I _{sc} (A)	14.50	14.56	14.63	
Maximum Power Voltage -V _{mp} (V)	42.24	42.43	42.67	
Maximum Power Current -I _{mp} (A)	13.69	13.74	13.79	

APPLICATION CONDITIONS					
1500VDC					
25A					
-40~+85 °C					
45±2 °C					
70%±10%					
Front side 5400Pa/ Rear side 2400Pa					

I-V CURVE

