

## SR-54M-HLPROD MONO

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Sunrise Energy Co., a Leading PV Company in Solar Panel Manufacturing ,Solar Project Investment and Solar System Integration.

Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high

adaptability and high compatibility.

With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

### Product advantage of Sunrise Energy SR-M672HLPro solar modules:

- 0 +5 W positive tolerance guarantee
- The use of high light transmission and reflection reduction 3.2mm glass, low light environment electric performance is stronger
- PID attenuation can be minimized under conventional conditions
- Salt mist / Ammonia / Dust and Hail resistance
- IEC61215 / IEC61730 / ISO9001 / ISO14001 / ISO45001 Certifications
- The Half cut cell size M10 using Multiple Bus Bar, which can eliminate the chamfering loss of single crystal
- Reduce BOS cost increase ROI



Hight Power Output.



Better Low-Light performance..



MBB Half Cut Cell Technology



Less Shading Effect



0 + 5 W Positive Tolerance



PID Resistance

## SPECIFICATIONS

SR-54M435NHLProD 435 W SR-54M440NHLProD 440 W SR-54M445NHLProD 445 W SR-54M450NHLProD 450 W

Number of cells	108 (6 x 18)
Cell type	M10 Monocrystalline - 182 x 91 mm (Multiple Bus Bar)
Maximum system voltage	1500 Vdc

### Electrical Specifications \*

		STC *	NOCT **	STC *	NOCT **	STC *	NOCT **	STC *	NOCT **
Maximum power	Pmax	435 Wp	328,16 Wp	440 Wp	331,93 Wp	445 Wp	335,70 Wp	450 Wp	339,48 Wp
Tolerance		0 / +5 W		0 / +5 W		0 / +5 W		0 / +5 W	
Maximum power voltage	Vmpp	32,05 V	30,07 V	32,24 V	30,25 V	32,43 V	30,43 V	32,62 V	29,31 V
Open circuit voltage	Voc	38,79 V	37,05 V	39,02 V	37,27 V	39,25 V	37,49 V	39,48 V	37,71 V
Maximum power current	I <sub>mp</sub>	13,58 A	10,95 A	13,65 A	11,01 A	13,73 A	11,07 A	13,80 A	11,13 A
Short circuit current	I <sub>sc</sub>	14,34 A	11,58 A	14,42 A	11,64 A	14,50 A	11,71 A	14,48 A	11,77 A
Module efficiency		21,79 %		22,05 %		22,30 %		22,55 %	

### Temperature Ratings

Open circuit voltage coefficient	Tk Voc	-0,29 % / °C
Short circuit current coefficient	Tk I <sub>sc</sub>	0,045 % / °C
Power coefficient	Tk W	-0,25 % / °C
Operating Temperature	NOCT	45 °C ±2 °C

### Other specifications

Dimensions	1762 x 1133 x 30 mm
Weight	21 Kgr.
Connection box	IP67 - 3 diodes Junction box
Cable	Cable 4 mm <sup>2</sup> - 1000 mm
Connector	MC4 or MC4 compatible

\* STC (Standard Test Conditions: 1000 W/m<sup>2</sup>, 25° C, AM 1,5)

\*\* NOTC (Normal Operating Test Conditions: 800 W/m<sup>2</sup>, 20° C, Windspeed 1 m/s)

## DOWNLOADS

### SR-54M-NHLPROD ESP

 N-type M10 108 cells 430~450w doble  
tial Monofacial Bornay ESP.pdf Size: 1.53 MiB

### SR-54M-NHLPROD ENG

 N-type M10 108 cells 430~450w double  
ss Monofacial Bornay ENG.pdf Size: 1.54 MiB