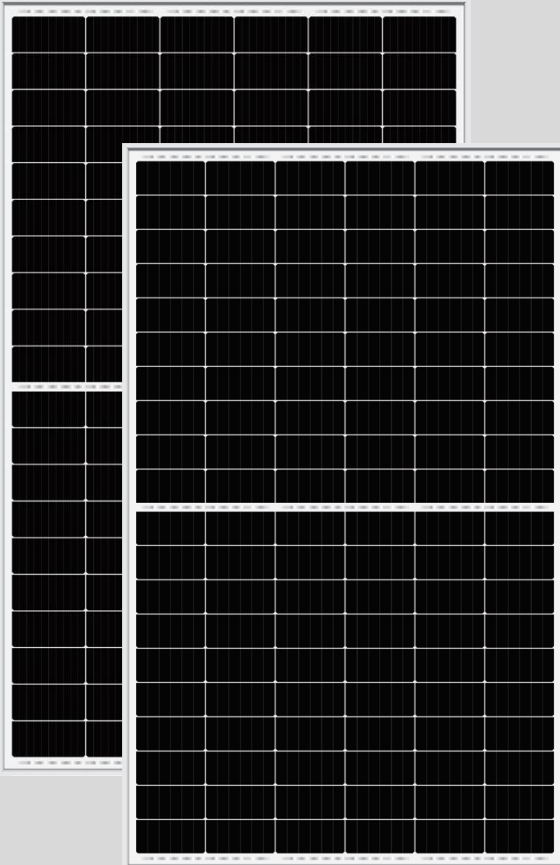


## SF-120HC

## MORE BRIGHT FUTURE FROM

## SUNFUTURE



### HALF CELL 325W 330W 335W 340W



#### Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.



#### High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.



#### Half-cell Design

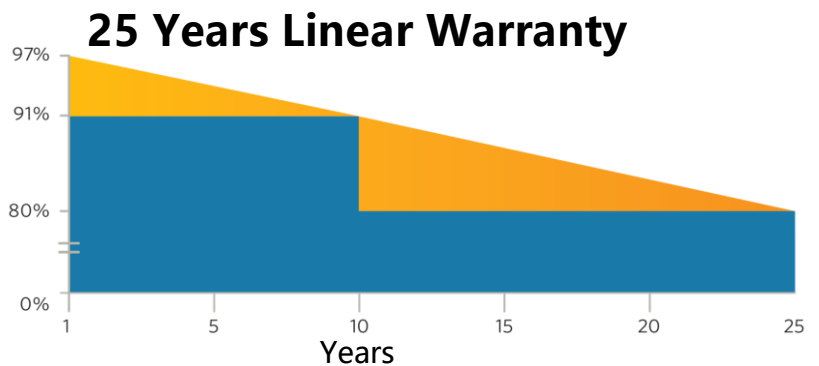
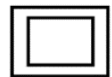
Less energy loss caused by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design.



#### Advanced Glass

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.

**20.68%**  
CELL EFFICIENCY  
**12 YEAR**  
PRODUCT WARRANTY  
**0-5W**  
POWER TOLERANCE



- SF's Linear Performance Warranty
- Industry Standard Warranty

## ELECTRICAL PERFORMANCE

### Electrical parameters at Standard Test Conditions (STC)

Module type	SF***-120HC					
Power output	$P_{max}$	W	325	330	335	340
Module efficiency	$\eta_m$	%	19.32	19.62	19.91	20.21
Voltage at $P_{max}$	$V_{mp}$	V	34.09	34.36	34.61	34.87
Current at $P_{max}$	$I_{mp}$	A	9.53	9.60	9.68	9.75
Open-circuit voltage	$V_{oc}$	V	40.70	40.85	41.00	41.15
Short-circuit current	$I_{sc}$	A	10.03	10.10	10.16	10.23

STC: 1000W/m<sup>2</sup> irradiance, 25° C cell temperature, AM1.5g spectrum according to EN 60904-3.

Average relative efficiency reduction of 3.0% at 200W/m<sup>2</sup> according to EN 60904-1.

### Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	$P_{max}$	W	241.8	245.5	249.2	253.0
Voltage at $P_{max}$	$V_{mp}$	V	31.70	31.95	32.18	32.43
Current at $P_{max}$	$I_{mp}$	A	7.63	7.68	7.74	7.80
Open-circuit voltage	$V_{oc}$	V	37.91	38.05	38.19	38.33
Short-circuit current	$I_{sc}$	A	8.10	8.16	8.20	8.26

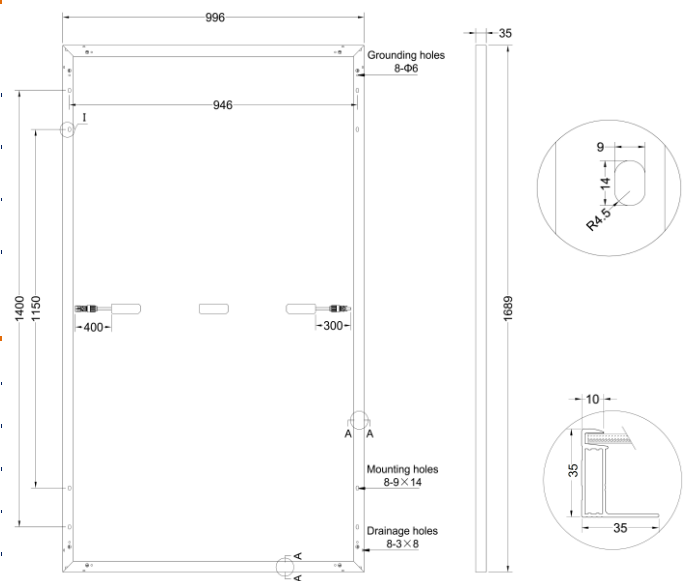
NOCT: open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## THERMAL CHARACTERISTICS

Nominal operating cell temperature (NOCT)	45°C ± 2
Temperature coefficient of $P_{max}$	-0.35%/°C
Temperature coefficient of $V_{oc}$	-0.30%/°C
Temperature coefficient of $I_{sc}$	+0.05%/°C

## OPERATING CONDITIONS & DIMENSION

Max. system voltage	1500V <sub>DC</sub>
Max. series fuse rating	20A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Dimension(mm)	1689×996×35
Weight	18.5kg
Frame colour	Silver/Black



Back View

Unit: mm

[www.sunfuturetech.com](http://www.sunfuturetech.com)

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