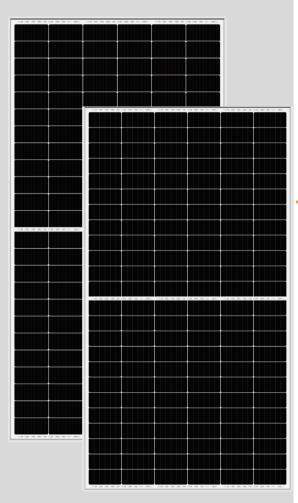
SUNFUTURE



MORE BRIGHT FUTURE FROM

SF-144HC

SUNFUTURE



HALF CELL 405W 410W 415W 420W

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



91%

80%

0%

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.

25 Years Linear Warranty

10

Years

20.68%

CELL EFFICIENCY

12 YEAR

PRODUCT WARRANTY

0-5W

POWER TOLERANCE

















15



20

Industry Standard Warranty

SF's Linear Performance Warranty

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More bright future from Sunfuture

SF-144 HC

ELECTRICAL PERFORMANCE



Electrical pa	rameters at Standa	rd Test Conditions	(STC)
	•		

Module type				SF***-144HC		
Power output	P _{max}	W	405	410	415	420
Module efficiency	ηm	%	20.20	20.40	20.45	20.48
Voltage at P _{max}	Vmp	V	41.75	41.98	41.75	41.98
Current at Pmax	Imp	Α	9.70	9.77	9.94	10.00
Open-circuit voltage	Voc	V	49.44	49.59	49.62	49.68
Short-circuit current	lsc	Α	10.21	10.26	10.21	10.26

STC: 1000W/m² irradiance, 25° C cell temperature, AM1.5g spectrum according to EN 60904-3.

Average relative efficiency reduction of 3.0% at 200W/m² according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)						
Power output	Pmax	W	301.3	305.0	308.8	312.5
Voltage at Pmax	V_{mp}	V	38.82	39.04	38.82	39.04
Current at Pmax	Imp	Α	7.76	7.81	7.95	8.00
Open-circuit voltage	Voc	V	46.05	46.19	46.22	46.28
Short-circuit current	lsc	Α	8.25	8.29	8.25	8.29

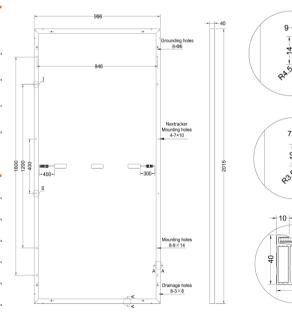
NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

THERMAL CHARACTERISTICS

Nominal operating cell temperature	
(NOCT)	45°C±2
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.30%/°C
Temperature coefficient of Isc	+0.05%/°C

OPERATING CONDITIONS & DIMENSION

Max. system voltage	1500V DC				
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)	2015×996×40				
Weight	22.7kg				
Frame colour	Silver/Black				



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Back View

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