

# SUNFUTURE

## SF-144HCM10

### MORE BRIGHT FUTURE FROM

### SUNFUTURE

## HALF CELL 525W 530W 535W 540W 540W 550W



#### Higher Durability

The 9-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.



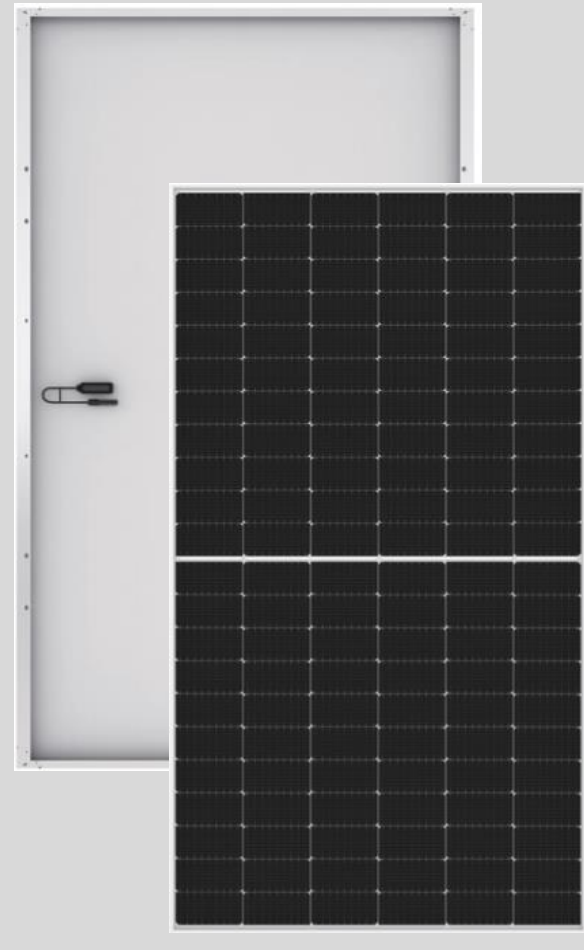
#### Half-cell Design

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.



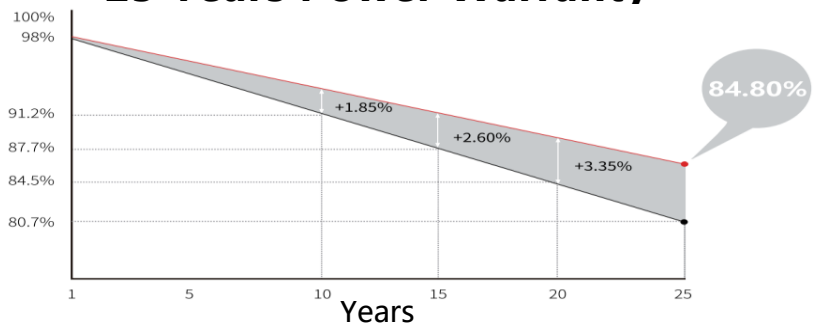
#### Advanced Glass

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



**21.50%**  
CELL EFFICIENCY  
**12 YEAR**  
PRODUCT WARRANTY  
**0-5W**  
POWER TOLERANCE

### 25 Years Power Warranty



■ SF's Linear Performance Warranty

■ Industry Standard Warranty



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More bright future from Sunfuture

202103V09

# SF- 144HCM10



## ELECTRICAL PERFORMANCE

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

Module type	SF**-144HCM10							
Power output	P <sub>max</sub>	W	525	530	535	540	545	550
Module efficiency	$\eta_m$	%	20.50	20.70	20.90	21.10	21.30	21.50
Voltage at P <sub>max</sub>	V <sub>mp</sub>	V	41.20	41.35	41.50	41.65	41.80	41.95
Current at P <sub>max</sub>	I <sub>mp</sub>	A	12.75	12.82	12.90	12.97	13.04	13.12
Open-circuit voltage	V <sub>oc</sub>	V	49.05	49.20	49.35	49.50	49.65	49.80
Short-circuit current	I <sub>sc</sub>	A	13.65	13.71	13.78	13.85	13.92	13.98

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 <sub>max</sub>	W	392.2	395.9	399.6	403.4	407.1	410.9
Voltage at P <sub>max</sub>	V <sub>mp</sub>	V	38.52	38.66	38.80	38.94	39.08	39.22
Current at P <sub>max</sub>	I <sub>mp</sub>	A	10.33	10.38	10.45	10.51	10.56	10.63
Open-circuit voltage	V <sub>oc</sub>	V	46.11	46.25	46.39	46.53	46.67	46.81
Short-circuit current	I <sub>sc</sub>	A	11.06	11.11	11.16	11.22	11.28	11.32

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

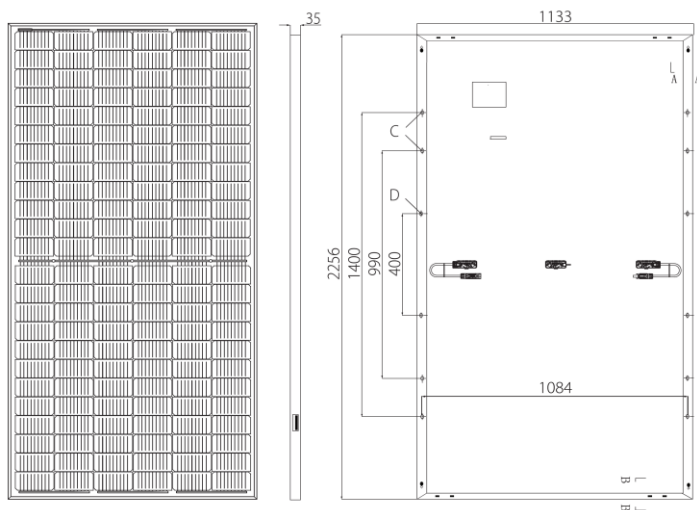
## THERMAL CHARACTERISTICS

### Standard Test Conditions (STC)

Temperature coefficient of P <sub>max</sub>	-0.048%/°C
Temperature coefficient of V <sub>oc</sub>	-0.270%/°C
Temperature coefficient of I <sub>sc</sub>	+0.350%/°C

### OPERATING CONDITIONS & DIMENSION

Max. system voltage	1500VDC
Max. series fuse rating	25A
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)	2256×1133×35
Weight	27.2Kg
Frame colour	Silver/Black



Units:mm

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

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