



**Shenzhen Sunfield New Energy Technology Co., Ltd**

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## ***HDT Flexible Solar Panel Spec***

*(Mono hetero-junction double-size solar cells)*

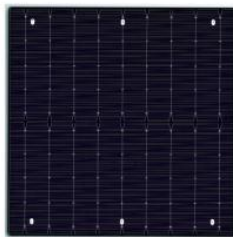
- Easy and Low Cost Installation
- 25% efficiency HDT 158.75\*158.75mm solar cell, the power can reach 6.25W/pc max.
- Thin and flexible solar cell
- Versatile installation options: applicable for RV, boat, cabin, tent, yachts or any other irregular surface.

High efficiency mono-crystalline hetero-junction double-sided solar cell (HDT), can generate power from both sides. It uses N-type mono-crystalline silicon as substrate. A thin layer of intrinsic hydrogenated amorphous silicon is deposited on both sides of the silicon substrate followed by the P-type and N-type thin film silicon.

This process improves the performance of P N junction, enabling the HDT solar cell to achieve one of the highest conversion efficiency in the world. HDT solar cell has low manufacturing process temperature, high conversion efficiency and low temperature coefficient.



Front side



Rear side

## **Characteristics**



### High efficiency

HDT solar cells adopt high conductive metallic bars technology, and the conversion efficiency is improved by **10%-20%** compared with traditional crystalline silicon cells.



### Double-sided power generation

The double-sided light absorption of the cells can be packaged into double-glass module, Rear power generation can increase power generation gain by **10%-20%**.



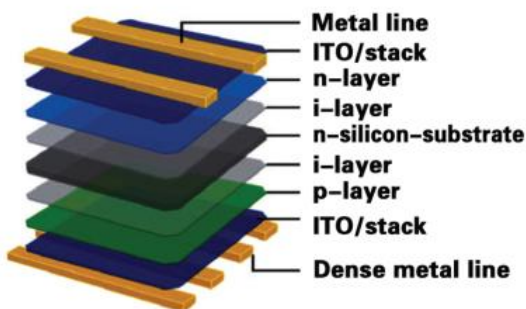
### Excellent temperature performance

The power coefficient of the cell is lower than **-0.252%/°C**. Compared with the traditional crystalline silicon cell, the temperature coefficient is reduced by 40% under high temperature environment which result in the power generation increase by 6-9%.

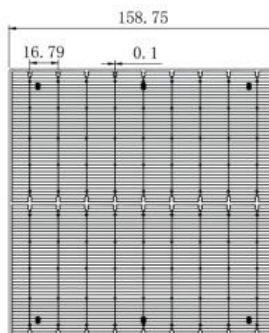


### High stability

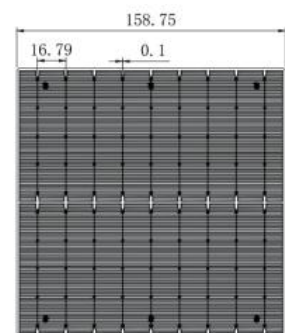
The cell adopts N-type single crystalline silicon cell has no PID and LETID effect into the GS anti-high temperature technology. Compared with the traditional crystalline silicon cell, the light-induced attenuation rate is reduced by **50%**.



The structure of HDT solar cell



Front side grid line pattern



Rear side grid line pattern



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Model NO.	Power (W)	Size (mm)	Vmp(V)	Imp(A)	Voc(V)	Isc(A)	No. of cells
SFED-F50HDT	50W	540*510*2.0mm	16.5V	3.03A	19.1V	3.27A	3*9=27(1/3 cells)
SFED-F100HDT	100W	940*510*2.0mm	19.8V	5.05A	22.9V	5.45A	3*11=33(1/2 cells)
SFED-F110HDT	110W	890*355*2.0mm	21.6V	5.09A	25.1V	5.50A	3*12=36(1/2 cells)
SFED-F120HDT	120W	865*670*2.0mm	24.0V	5.00A	27.8V	5.40A	4*10=40(1/2 cells)
SFED-F135HDT	135W	940*670*2.0mm	26.4V	5.11A	30.6V	5.52A	4*11=44(1/2 cells)
SFED-F180HDT	180W	1265*670*2.0mm	18.0V	10.0A	25.2V	6.11A	4*15=60(1/2 cells)
SFED-F200HDT	200W	1350*680*2.0mm	19.8V	10.1A	22.9V	10.9A	4*16=64(1/2 cells)
SFED-F220HDT	220W	1515*670*2.0mm	21.6V	10.2A	25.1V	11.0A	4*18=72(1/2 cells)
SFED-F290HDT	290W	1350*995*2.0mm	28.8V	10.1A	33.4V	10.9A	6*16=96(1/2 cells)

#### Referenced Pictures:



#### Notes:

1. Front side can be PET or ETFE film.
2. Junction box can be on the front or backside according to customers' requirement.
3. Packing: 5-20pcs/carton, with foams inside.