GOLDEN SOLAR

Make Solar Energy More Efficient!

HJT

JGYC-182-16BB
Heterojunction Solar Cells

Heterojunction Cell Technology
A heterojunction cell combines all the advantages of crystalline and thin-film solar technologies in a single hybrid structure.

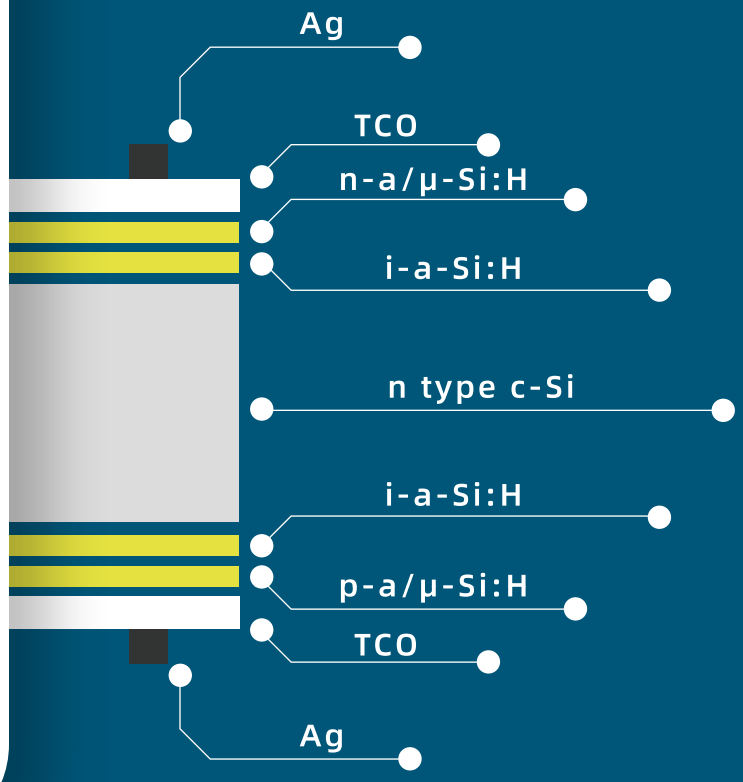
High Bifaciality
The bifaciality is >90%, and the power output of HJT cells is about 3%-6% higher than that of bifacial PERC and TopCon cells.

Excellent Weak Light Performance
Under the lower irradiation intensity, HJT cells have an average of 1-2% more power per watt than PERC bifacial cells.

The Highest Efficiency
By using 182 mm N-type silicon wafer, the maximum power of half cells can reach 4.13W, and the efficiency can be up to 25%.

Higher Efficiency at High Temperature
The lowest temperature coefficient can be up to -0.243%/K. Under high temperature environments, the output of HJT cells per W is about 0.6-3.9% higher than that of bifacial TONCon cells.

Anti-PID
Battery surface is TCO, so charge will not produce polarization phenomenon on the cells' surface TCO.



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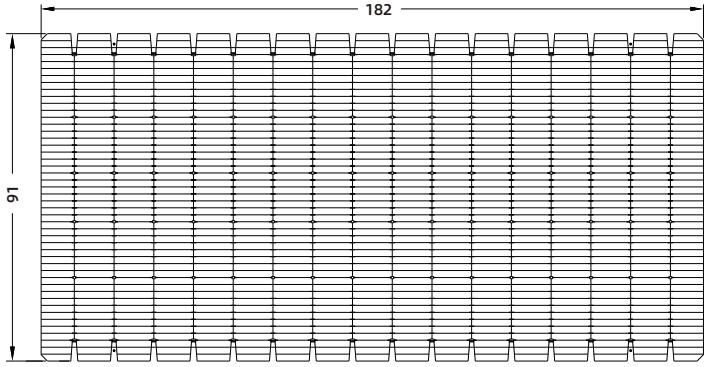
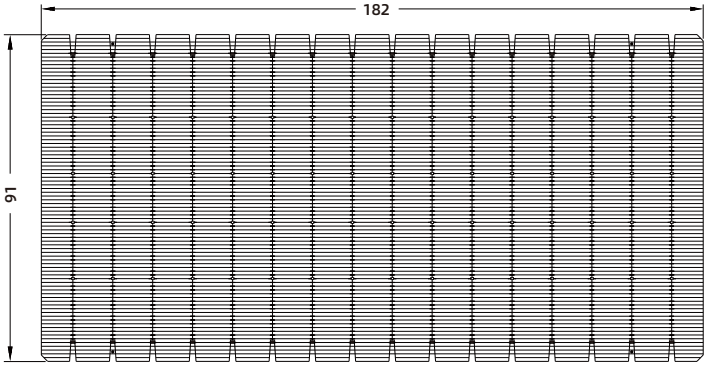
The Cell's Front



The Cell's Back

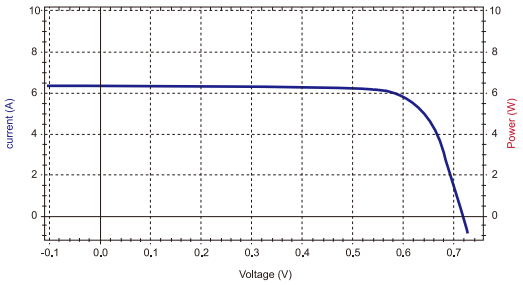


Electrical Performance Parameters

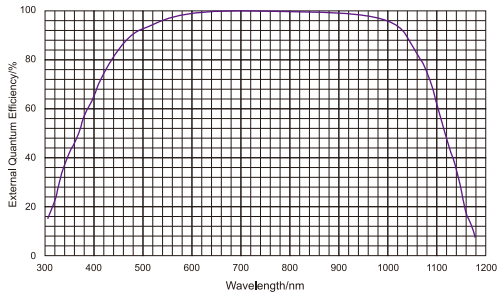
Efficiency Range	Pmpp	Isc	Voc	Eff
	(W)	(A)	(V)	(%)
JG-182M-24.3	4.01	6.511	0.747	24.3
JG-182M-24.4	4.03	6.504	0.748	24.4
JG-182M-24.5	4.04	6.507	0.748	24.5
JG-182M-24.6	4.06	6.509	0.748	24.6
JG-182M-24.7	4.08	6.511	0.748	24.7
JG-182M-24.8	4.09	6.513	0.748	24.8
JG-182M-24.9	4.11	6.516	0.748	24.9
JG-182M-25.0	4.13	6.518	0.748	25.0

The amplitude of Voc (Isc) decreasing with irradiation intensity based on STC (1000W/㎡, AM1.5, 25℃).

I-V Curve



Spectral Response



Irradiation Dependence Characteristics

Irradiation (W/㎡)	Voc	Isc
1000	1.0	1.0
900	0.99	0.9
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4

Temperature Coefficient

Voc	-0.243%/K
Isc	+0.032%/K
Pmax	-0.243%/K

Mechanical data and Design

Dimension	182×91±0.25mm
Thickness	130±20μm
Front (-)	18*0.04mm Busbar(Silver), Blue layer (TCO) (In order to improve efficiency, it will be continuously optimized and upgraded)
Back (+)	18*0.04mm Busbar(Silver), Blue layer (TCO) (In order to improve efficiency, it will be continuously optimized and upgraded)

*The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancement. Golden Solar reserves the right to make necessary adjustments to the information described herein at any time without further notice.

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