HJTG10460R

440-460W

96-cell Bifacial HJT Half Cell Double-glass Solar Module







HJT 3.0

Combining gettering process and double-sided µc-Si to maximize cell efficiency and module power.



Up to 90% Bifaciality

Natrual symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Suitable for Utility Solar projects

WARRANTY

Product Warranty 15

Linear Power Warranty 30 years







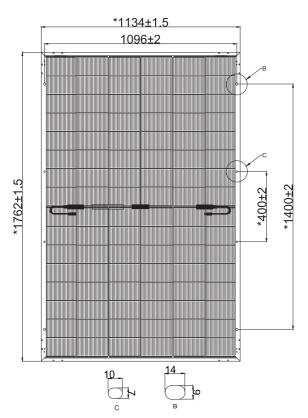


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Engineering Drawings Unit: mm



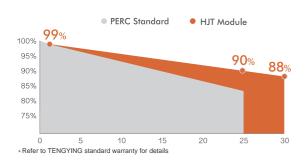
Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	$44^{\circ}\text{C}\pm2^{\circ}\text{C}$
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.04%/°C

Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

more than 0.375%, and the power is no less than 88% until the 30th year.



Electrical Characteristics (STC*)

HJTG10460R	TS440	TS445	TS450	TS455	TS460
Maximum Power (Pmax	440W	445W	450W	455W	460W
Module Efficiency (%	22.02%	22.27%	22.52%	22.77%	23.02%
Optimum Operating Voltage (Vmp	30.43V	30.66V	30.88V	31.10V	31.30V
Optimum Operating Current (Imp	14.47A	14.53A	14.60A	14.66A	14.72A
Open Circuit Voltage (Voc	36.68V	36.95V	37.22V	37.47V	37.72V
Short Circuit Current (Isc	15.26A	15.30A	15.36A	15.41A	15.45A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage		[DC1500V (IEC)	
Maximum Series Fuse	30A				
Power Tolerance		0~+5W			
Bifaciality			85%±5%		

*STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5, Tolerance of Pmax is within +/- 3%.

BSTC**/NOTC**

Maximum Power	(Pmax)	490W	495W	500W	505W	510W
Optimum Operating Voltage	(Vmp)	30.43V	30.66V	30.88V	31.10V	31.30V
Optimum Operating Current	(Imp)	16.11A	16.15A	16.19A	16.24A	16.30A
Open Circuit Voltage	(Voc)	36.68V	36.95V	37.22V	37.47V	37.72V
Short Circuit Current	(Isc)	17.01A	17.05A	17.12A	17.17A	17.22A

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

Maximum Power	(Pmax)	335W	338W	342W	346W	350W
Optimum Operating Voltage	(Vmp)	28.91V	29.11V	29.30V	29.51V	29.71V
Optimum Operating Current	(Imp)	11.58A	11.62A	11.68A	11.73A	11.78A
Open Circuit Voltage	(Voc)	35.01V	35.27V	35.52V	35.77V	36.00V
Short Circuit Current	(Isc)	12.21A	12.24A	12.29A	12.33A	12.36A

Mechanical Characteristics

Cell Type	HJT Mono 182×105mm			
Cell Connection	96 (6×16)			
Module Dimension	1762 x 1134 x30 mm			
Weight	23 kg			
Junction Box	IP68			
Output Cable	4mm², 300mm in length, length can be customized / UV resistant			
Connectors Type	MC4 original / MC4 compatible			
Frame	Anodised aluminum alloy			
Front Load	5400 Pa			
Rear Load	2400 Pa			
Glass Thickness	Double glass, 1.6mm			

Shipping Configurations

Container Size		40'HC
Pallets Per Container	(pcs)	26
Modules Per Pallet	(pcs)	36
Modules Per Container		936

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