

Everest G12R Series 445-460W

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





HJT 3.0

Combining gettering process and double-sided $\mu c\mbox{-Si}$ to maximize cell efficiency and module power.



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

Up to 95% Bifaciality

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



Ideal choice for solar rooftop system Suitable for various rooftop projects.

WARRANTY









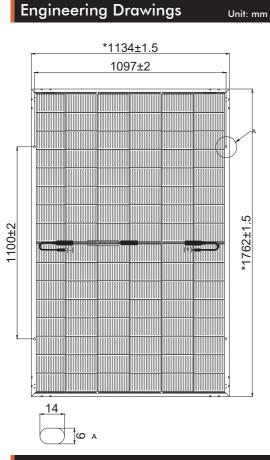
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Everest G12R Series 445-460W

96-cell Bifacial HJT Half Cell Solar Module

- BloombergNEF Tier 1 PV module manufacturer
- Reinsurance underwritten by Ariel Re



Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.24%/ °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*		

 * Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



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Electrical Characteristics (STC*)

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HS-210R-B96		DSN445	DSN450	DSN455	DSN460
Maximum Power	(Pmax)	445W	450W	455W	460W
Module Efficiency	(%)	22.27%	22.52%	22.77%	23.02%
Optimum Operating Voltage	(Vmp)	30.61V	30.76V	30.90V	31.05V
Optimum Operating Current (Imp)		14.54A	14.64A	14.73A	14.82A
Open Circuit Voltage	(Voc)	36.45V	36.61V	36.77V	36.93V
Short Circuit Current	(Isc)	15.24A	15.34A	15.43A	15.52A
Operating Module Temperature			-40 to +85 °C		
Maximum System Voltage			DC1500V (IEC)		
Maximum Series Fuse		30A			
Power Tolerance			0~+5W		
Bifaciality			$90\%\pm5\%$		

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

Maximum Power	(Pmax)	496W	501W	507W	512W
Optimum Operating Volt	age (Vmp)	30.72V	30.86V	31.01V	31.16V
Optimum Operating Curi	rent (Imp)	16.15A	16.25A	16.36A	16.46A
Open Circuit Voltage	(Voc)	36.58V	36.74V	36.90V	37.06V
Short Circuit Current	(Isc)	16.99A	17.10A	17.20A	17.30A
**BSTC: Front side irradiation 10	00W/m², back side r	eflection irradiation 1	35W/m², AM=1.5, ambi	ent temperature 25 °C.	
Maximum Power	(Pmax)	338W	342W	346W	349W

Maximum Power	(Pmax)	338W	342W	346W	349W
Optimum Operating Volta	age (Vmp)	29.12V	29.26V	29.40V	29.54V
Optimum Operating Curre	ent (Imp)	11.62A	11.70A	11.77A	11.84A
Open Circuit Voltage	(Voc)	34.79V	34.94V	35.09V	35.25V
Short Circuit Current	(Isc)	12.18A	12.26A	12.33A	12.40A
**NOCT: Irradiance 800W/m ² , Amb	pient Temperature	20°C, Wind Speed 1n	n/s.		

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	4mm ² , 300mm in length, length can be customized / UV resistant			
Connectors Type	MC4-Evo 2			
Frame	Anodised aluminum alloy(Black)			
Front Load	5400 Pa			
Rear Load	2400 Pa			
Glass Thickness	Double glass, 1.6mm			

Shipping Configurations

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

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