

# 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-Si to maximize cell efficiency and module power.



#### Up to 95% 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.



# Ideal choice for solar rooftop system

Suitable for various rooftop projects.

**WARRANTY** 

Product 15

Linear Power Warranty









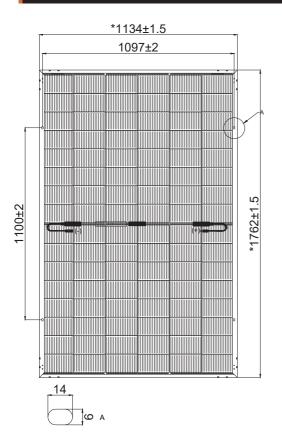


- BloombergNEF Tier 1 PV module manufacturer
- Reinsurance underwritten by Ariel Re

 $90\% \pm 5\%$ 

# **Engineering Drawings**

Unit: mm



# Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	$44^{\circ}\text{C}\pm2^{\circ}\text{C}$
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*		

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



#### Electrical Characteristics (STC\*) HS-210R-B96 **DSN445 DSN450 DSN455 DSN460** Maximum Power (Pmax) 445W 450W 455W 460W Module Efficiency 22.52% 22.27% 22.77% 23.02% Optimum Operating Voltage (Vmp) 30.76V 30.61V 30.90V 31.05V Optimum Operating Current (Imp) 14.64A 14.54A 14.73A 14.82A Open Circuit Voltage 36.45V 36.61V 36.77V 36.93V Short Circuit Current 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

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

# BSTC\*\*/NOCT\*\*

Bifaciality

Maximum Power	(Pmax)	496W	501W	507W	512W
Optimum Operating Voltage	(Vmp)	30.72V	30.86V	31.01V	31.16V
Optimum Operating Current	(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

Maximum Power	(Pmax)	338W	342W	346W	349W
Optimum Operating Voltag	ge (Vmp)	29.12V	29.26V	29.40V	29.54V
Optimum Operating Curre	nt (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

### **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-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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