

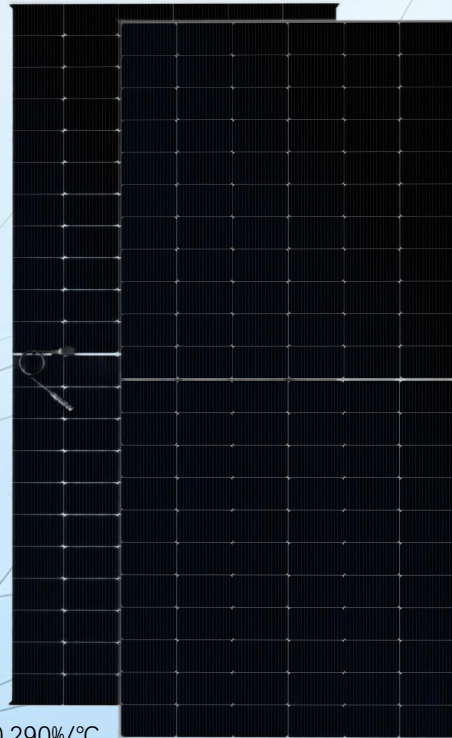


恒领新能源 Hengling New Energy

132-cell monocrystalline N-PRO double-glass half-cut module (610-625W)

HL610/615/620/625-33V-MHD Rz

625W
N-type double-sided



Excellent temperature coefficient (P_{max}) : $-0.290\%/^{\circ}\text{C}$



Excellent low-light performance: The power generation duration is extended by up to approximately 1 hour during early morning and evening hours.



With lower LID/LeTID attenuation



The double-sided efficiency is $80\% \pm 5\%$. The power generation gain increases with enhanced light absorption on the back side, significantly reducing the levelized cost per kilowatt-hour.

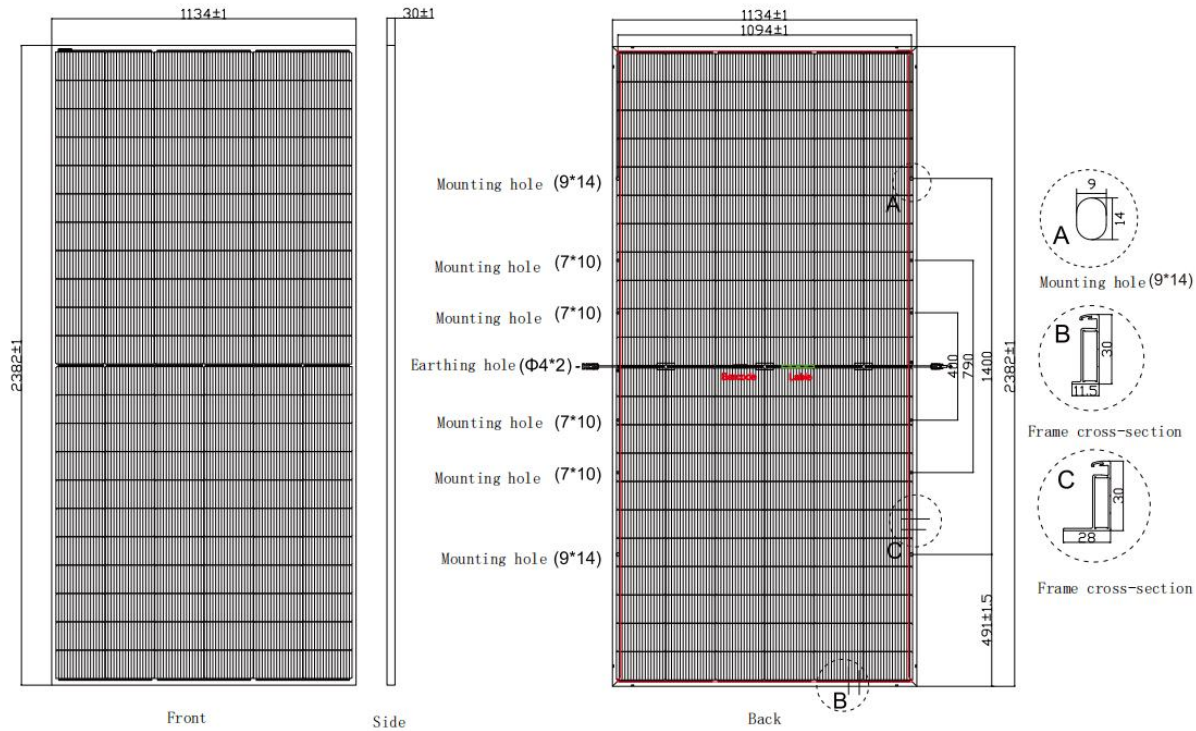
Electrical Performance (STC) Test Conditions: Irradiance 1000 W/m ² , Cell Temperature 25°C, Air Mass AM1.5				
Parameter	HL610 33V-MHD Rz	HL615 33V-MHD Rz	HL620 33V-MHD Rz	HL625 33V-MHD Rz
Rated Peak Power (W)	610	615	620	625
Maximum Power Voltage (V)	41.38	41.42	41.46	41.51
Maximum Power Current (A)	14.74	14.85	14.96	15.06
Open Circuit Voltage (V)	48.68±3%	48.73±3%	48.78±3%	48.83±3%
Short Circuit Current (A)	15.66±3%	15.78±3%	15.89±3%	16±3%
Component Efficiency (%)	22.58	22.77	22.96	23.14
Electrical Performance (BNPT) Test Conditions: Irradiance 1000 W/m ² , Irradiation Area 135 W/m ² , Cell Temperature 25°C, Air Mass AM1.5				
Rated Peak Power (W)	676	682	687	693
Maximum Power Voltage (V)	41.5	41.54	41.59	41.63
Maximum Power Current (A)	16.29	16.41	16.53	16.64
Open Circuit Voltage (V)	48.83±3%	48.88±3%	48.93±3%	48.98±3%
Short Circuit Current (A)	17.3±3%	17.44±3%	17.56±3%	17.68±3%
Mechanical Performance		Operating Parameters		
Cell Type (mm)	182 *105 N-type mono silicon cell	Maximum System Voltage	1500V	
Number of Battery Chips	130(12×11)	Operating Temperature	-40~+85 °C	
Component Size (mm)	2382×1134×30	Maximum Series Fuse Rated Current	30A	
Component Weight (kg)	32.40 kg	Storage and Operating Temperature	45~+2°C	
Front Glass	2.0mm High-transmittance Tempered Glass	Temperature Coefficients		
Back Glass (mm)	2.0mm Tempered Glass			
Frame Type	Anodized Aluminum Alloy (Silver)	Rated Power Temperature Coefficient	-0.29%/°C	
Junction Box	IP68 Protection, 1500V DC, 3 Diodes	Open Circuit Voltage Temperature Coefficient	-0.25%/°C	
Output Cable	4.0mm ² Square Cable, Positive (+) 300mm, Negative (-) 300mm (including connector, positive and negative matching) Or customized lengths	Short Circuit Current Temperature Coefficient	+0.045%/°C	
Protection Level	IP68			
Snow Load / Wind Load	5400Pa / 2400Pa			
Safety Protection Class	Class II	Packaging Standard (17.5m Flatbed Truck Loading Data)		
IEC Component Fire Rating	Class A	Number of Components per Truck	962 pieces (26 pallets × 37 pieces)	



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Assembly drawing

Unit: mm



IV Curve (620W)

