



恒领新能源 Hengling New Energy

144-cell Monocrystalline N-type Double-glass Half-cut Module (585-605W)

605W
N-type double-sided



HL585/590/595/600/605-36V-MHD



Excellent temperature coefficient (Pmax) : -0.290%/°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% ± 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/m², Cell Temperature 25°C, Air Mass AM1.5

Parameter	HL585-36V-MHD	HL590-36V-MHD	HL595-36V-MHD	HL600-36V-MHD	HL605-36V-MHD
Rated Peak Power (W)	585	590	595	600	605
Maximum Power Voltage (V)	44.81	44.87	44.93	44.99	45.05
Maximum Power Current (A)	13.05	13.15	13.24	13.34	13.43
Open Circuit Voltage (V)	52.72±3%	52.79±3%	52.86±3%	52.93±3%	53±3%
Short Circuit Current (A)	13.87±3%	13.97±3%	14.07±3%	14.17±3%	14.27±3%
Component Efficiency (%)	22.65	22.84	23.03	23.23	23.42

Electrical Performance (BNPT) Test Conditions: Irradiance 1000 W/m², Irradiation Area 135 W/m², Cell Temperature 25°C, Air Mass AM1.5

Rated Peak Power (W)	648	654	659	665	671
Maximum Power Voltage (V)	44.95	45.01	45.01	45.13	45.19
Maximum Power Current (A)	14.42	14.53	14.53	14.74	14.84
Open Circuit Voltage (V)	52.88±3%	52.95±3%	53.02±3%	53.09±3%	53.16±3%
Short Circuit Current (A)	15.33±3%	15.44±3%	15.55±3%	15.66±3%	15.77±3%

Mechanical Performance

Cell Type (mm)	182 *91 N-type mono silicon cell	Maximum System Voltage	1500V
Number of Battery Chips	144(12×12)	Operating Temperature	-40~+85 °C
Component Size (mm)	2278×1134×30	Maximum Series Fuse Rated Current	25A
Component Weight (kg)	31.50 kg	Storage and Operating Temperature	45~+2°C

Operating Parameters

Front Glass	2.0mm High-transmittance Tempered Glass		
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Back Glass (mm)	2.0mm Tempered Glass	Temperature Coefficients	
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Frame Type	Anodized Aluminum Alloy (Silver)	Rated Power Temperature Coefficient	-0.29%/°C
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Junction Box	IP68 Protection, 1500V DC, 3 Diodes	Open Circuit Voltage Temperature Coefficient	-0.25%/°C
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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
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Protection Level	IP68		
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Snow Load / Wind Load	5400Pa / 2400Pa		
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Safety Protection Class	Class II	Packaging Standard (17.5m Flatbed Truck Loading Data)	
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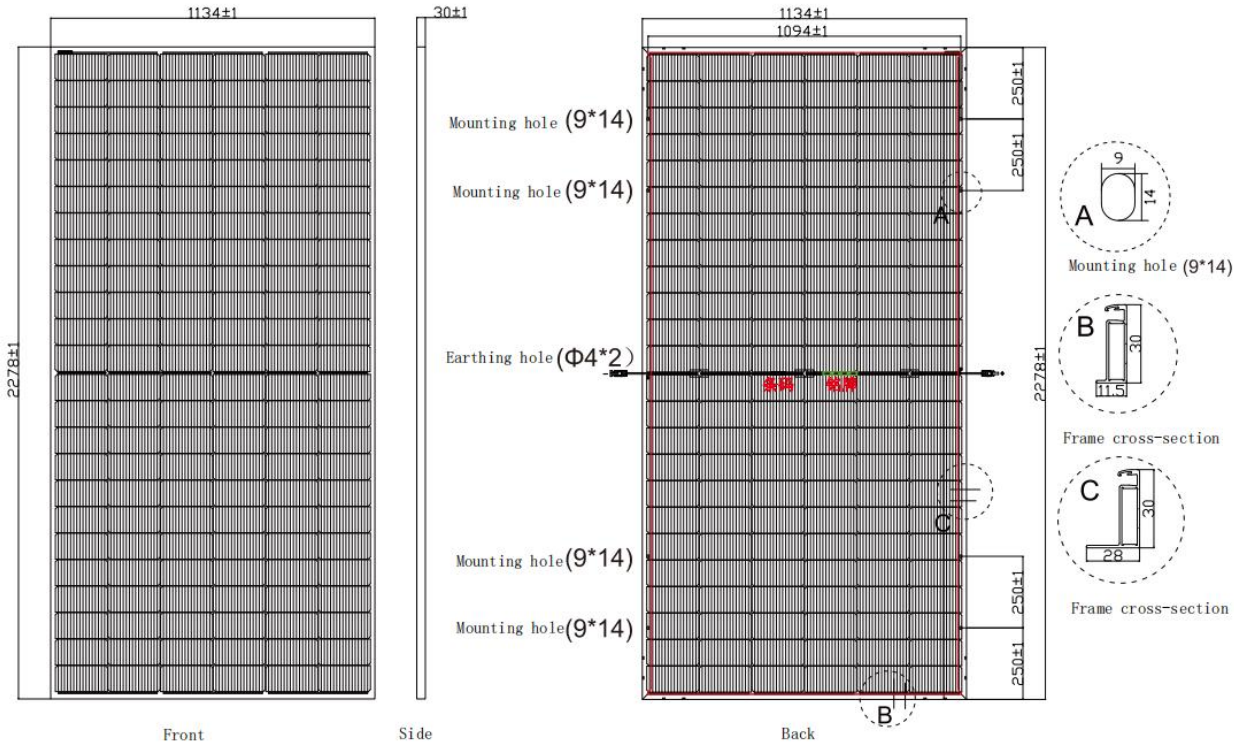
IEC Component Fire Rating	Class A	Number of Components per Truck pallets × 37 pieces)	1036 pieces (28
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Assembly drawing

Unit: mm



IV Curve (600W)

