



### Main Features



#### Building materials design idea

Designed as per green building materials idea  
30-Year power output



#### Half-cut technology

Increase power output, reduce cracking risks,  
improve module reliability



#### Intelligent safety guarantee

Module safety shutdown, power optimization and  
monitoring functions



#### Reduce shading loss

Half-cut cell + intelligent optimization technology  
Avoid the influence of shading, reduce the loss of power



#### Easy Installation

The module design is easy for installation and could  
achieve a flat & full installation.

### Product Certificates



### Contact Us

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# Xihe Smart PV Module

MDM280~MDM290

Launched for  
intelligent & green buildings

## Electrical performance parameters

Model	MDM280	MDM285	MDM290
Maximum power (Pm/Wp)	280	285	290
Maximum power voltage (Vmp/V)	31.5	31.7	31.9
Maximum power current (Imp/A)	8.9	9.00	9.10
Open circuit voltage (Voc/V)	37.5	37.6	37.7
Short circuit current (Isc/A)	9.70	9.80	9.90
Module efficiency (%)	16.8	17.10	17.4

## Mechanical performance parameters

Cell Nos & array	Poly half-cut cells 120 (6*10*2)	
Appearance color	dark blue	
Cable	4mm <sup>2</sup> , negative 1000mm, positive 1000mm	
Module weight(kg)	19	
Module dimension(L*W*H)(mm)	1684*992*5mm	
Packing	33pcs/pallet	
Power optimizer matching form	2 modules equipped with 1 optimizer	

## Quality parameters

Module working temperature range (°C)	-40~+85
Power tolerance (W)	0~+5
Maximum system voltage (V)	DC1500
System maximum protection current (A)	15
NOCT(°C)	45 ± 2
Front/rear static loads(Pa)	2400/2400
Protection grade of junction box	Ip68, split/MC4 compatible

## Temperature coefficient (STC)

Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	+0.05%/°C
Temperature coefficient of Pm	-0.41%/°C

Test condition: irradiance=(1+0.1BIFI)1000W/m<sup>2</sup>, ambient temperature=25°C, AM=1.5

## Quality warranty

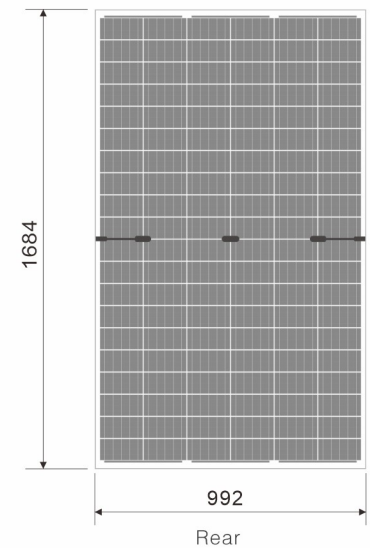
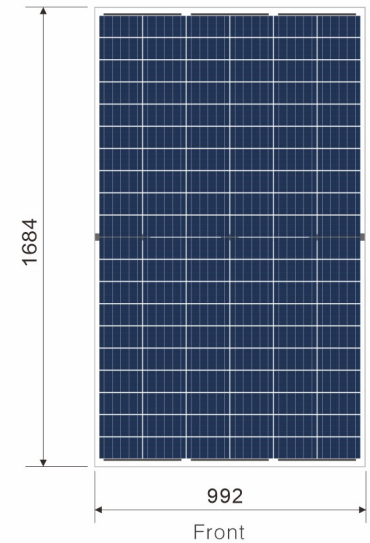
10-year materials&workmanship warranty

30-year linear power warranty

Attention:Read safety and installation instructions before using.

The parameters in this sheet are subject to change without prior notice.

## Module dimension (mm)



## I-V curve (290W)

