

450W-35V

WHC-450M-120

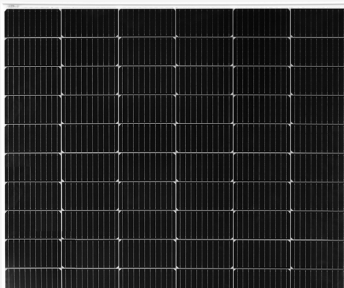
MONO CRYSTALLINE SOLAR PANEL

0~+3% tolerance

ISO9001:2008, ISO14001:2004, OHSAS18001

Factory certificates

IEC61215, IEC61730 product certificates



Key Features



1000V System Voltage

1000V solar system voltage design, significantly lowers BOS cost Compared to 1000V systems



5BB Solar Cell

More uniform current collection capability, reduce the current Heat loss of the cell; nice appearance and more suitable for roof installation.



High Power Output

120 pieces solar chip output power up to 450Wp.



Anti-PID Guarantee

Anti-PID cell and encapsulation technology Frameless module Requires no module grounding which may PID.



Low Light Performance

By high efficiency glass with surface veneering technology to Achieve excellent performance in low light conditions.



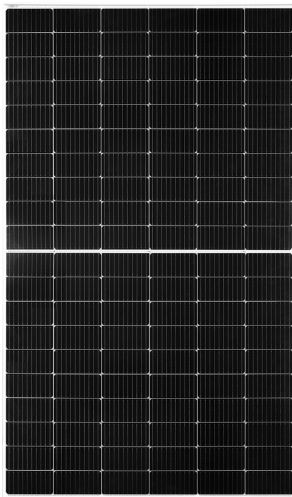
Strengthened Load Ability

5400 pa snow load, 2400 pa wind load.



Harsh Environment Adaptability

TUV North German test passed high salt spray and high ammonia Gas corrosion test.

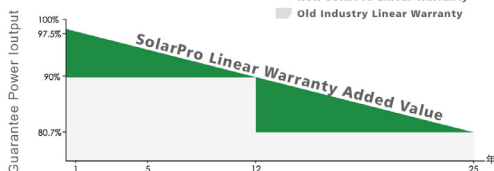


Leading Linear Warranty

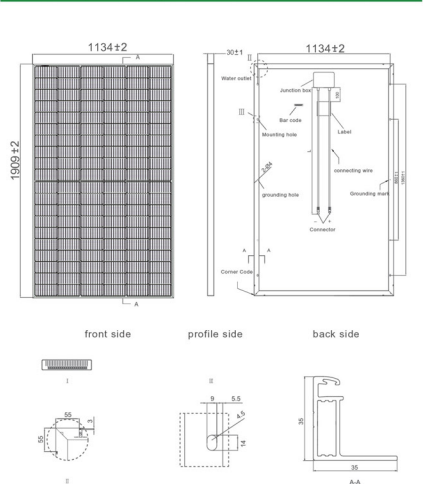
12 Years Material Craft Warranty

25 Years Life Time

■ New SolarPro Linear Warranty
■ Old Industry Linear Warranty



Assembly drawing



Packing standard

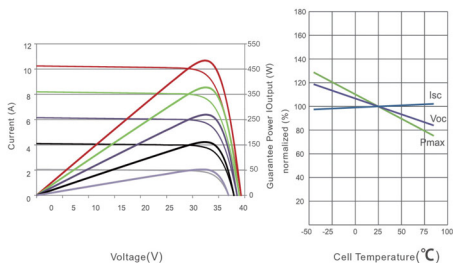
Flatbed transport truck loading capacity(size :13M long truck)

Tray size(mm) 31 pieces/tray 28 tray/car 868 pieces/car

Chart

I V & Power V Chart; Isc, Voc(450W) Isc Voc Pmax Temperature c

Isc Voc Pmax Temperature c



Structural parameters

Cell size	Mono Crystalline Module 182x182mm
Solar Cell Number	120(6x20)
Panel size	1909×1134×30mm
Panel weight	23.0KG
Front cover glass	3.2mm,High light transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction box	Ip67
Cable	TÜV 1×400 mm ² / UL 12AWG, cable length:900mm or OEM

Electrical performance parameter	Electrical performance parameter
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Panel module	WHC-450M-120
Max.Power volt(Pmax)	450Wp
Max. circuit volt(Vmp)	34.6V
Max. circuit current(Imp)	12.98A
Open circuit volt(voc)	41.18V
Open circuit current(Isc)	13.89A
Open circuit current(°C)	-40°C~+85°C
Max. System voltage	1000VDC (IEC)
Max. rated fuse current	20A
Output power tolerance	0~+3%
temperature index in Max.Power	-0.37%/°C
temperature index in Open circuit volt	-0.28%/°C
temperature index in Open circuit current	0.048%/°C
Nominal battery work temperature(Nect)	45±2°C

STC:  Light intensity 1000W/m²  Battery temperature: 25°C  atmosphere quality=15

NOCT:  Light intensity 800W/m²  Battery temperature: 20°C  atmosphere quality=15  wind velocity

*Power Tolerance +/-3%

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