

550W-42V

WHC-550M-144

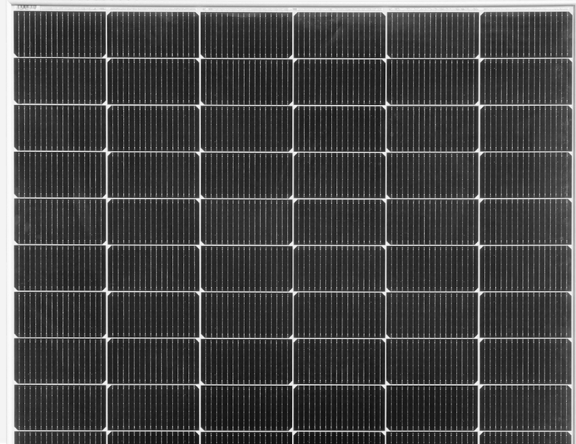
MONO CRYSTALLINE SOLAR PANEL

0~+3% tolerance

ISO9001:2008, ISO14001:2004, OHSAS18001

Factory certificates

IEC61215, IEC61730 product certificates



Key Features



PERC 182 Cells

Better capability of current collection, larger area of power generation, nice appearance, more suitable for installation on the roof.



1000V System Voltage

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



11BB 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

144 pieces solar chip output power up to 550Wp.



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.

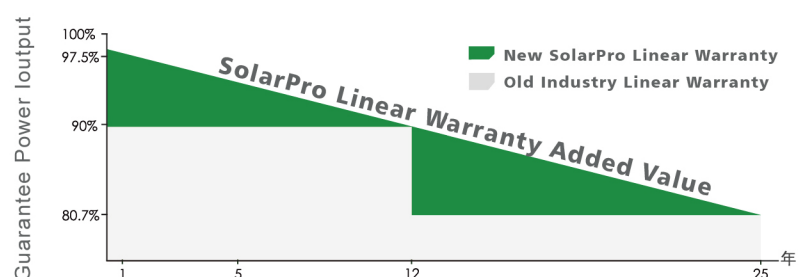


Harsh Environment Adaptability

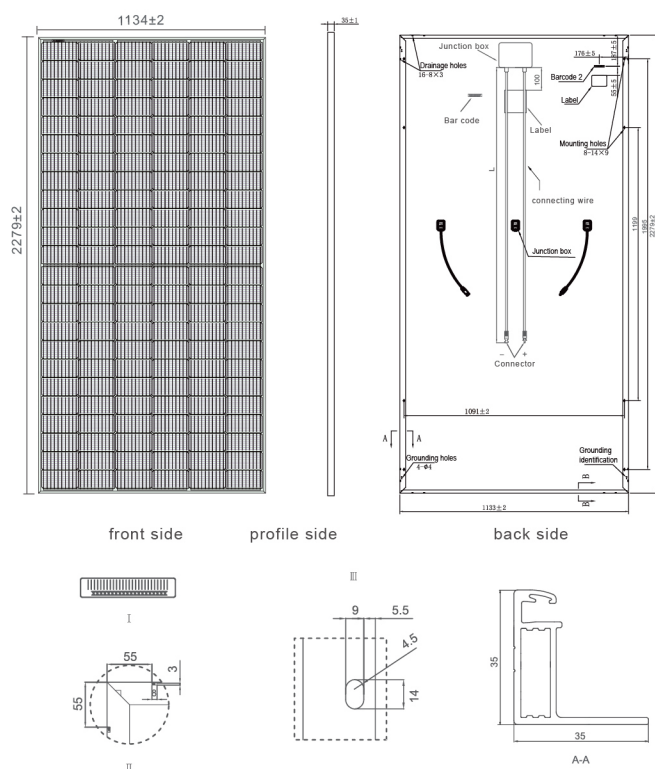
TUV North German test passed high salt spray and high ammonia Gas corrosion test.

Leading Linear Warranty

12 Years Material Craft Warranty/25 Years Life Time



Assembly drawing



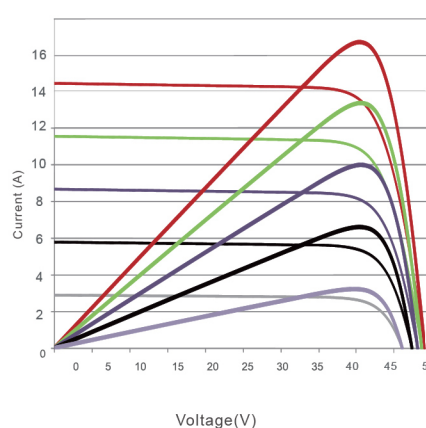
Packing standard

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

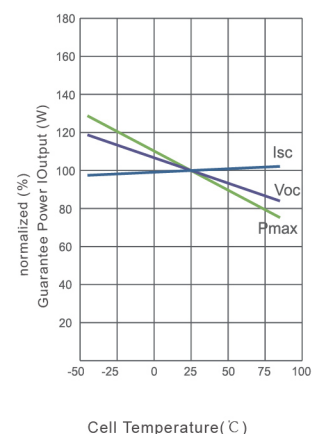
Tray size(mm) 31 pieces/tray 28 tray/car 868 pieces/car

Chart

I V & Power V Chart; Isc, Voc(555W)



Isc Voc Pmax Temperature curve



Structural parameters

Cell size	Mono Crystalline Module 182x182mm
Solar Cell Number	144(6*24)
Panel size	2279*1134*35mm
Panel weight	27.3KG
Front cover glass	3.2mm,High light transmission, low iron, tempered glass
Frame	Anodized Aluminum Alloy
Junction box	Ip67
Cable	TÜV 1×40 mm² / UL 12AWG, cable length:900mm

Electrical performance parameter

Panel module	WHC-550M-144
Max.Power volt(Pmax)	550Wp
Max. circuit volt(Vmp)	41.97V
Max. circuit current(Imp)	13.11A
Open circuit volt(voc)	49.62V
Open circuit current(Isc)	14.05A
Open circuit current(℃)	-40℃~+85℃
Max. System voltage	1000VDC (IEC)
Max. rated fuse current	20A
Output power tolerance	0~+3%
temperature index in Max.Power	-0.37%/℃
temperature index in Open circuit volt	-0.28%/℃
temperature index in Open circuit current	0.048%/℃
Nominal battery work temperature(Nect)	45±2℃

STC: Light intensity1000W/m₂ Battery temperature:25℃ atmosphere quality=15

NOCT: Light intensity800W/m₂ Battery temperature:20℃ atmosphere quality=15 wind velocity 1m/s

*Power Tolerance +/-3%

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