

# WRS-144MH

## POWER RANGE

535W~550W

## CELL SIZE

182\*91mm

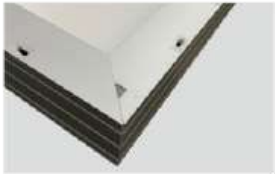


### JUNCTION BOX

Waterproof protection grade:IP67/IP68  
 Safety Level: Class II  
 Maximum System Voltage: 1500V  
 outstanding waterproof level ·  
 Effectively resist harsh environments



10BB



### Frame

Strong machinical load  
 resistance up to 5400Pa  
 Anodic oxidation layer resistant to  
 chemical corrosion available  
 in silver and black



### Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



### Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly,so that to reduce the power loss and then increase the output of modules.



### Lower cost

Increasing power generation can reduce the cost per kilowatt-hour



### Excellent performance of PID resistance

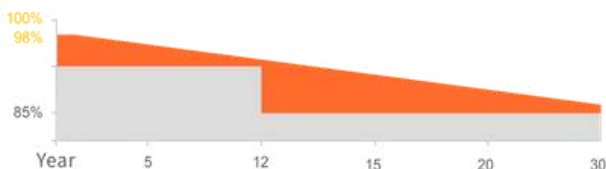
The performance of PID resistance(Potential Induced Degradation) passed the standard of TUV Nord.

## QUALIFICATIONS AND CERTIFICATES



· IEC61215 / · IEC61730

## WARRANTY



12 YEARS

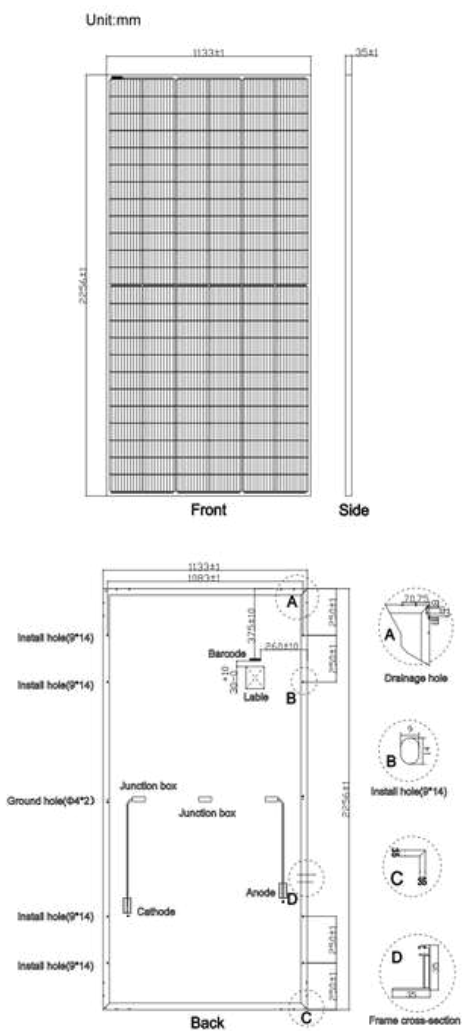
Guarantee on product material and workmanship

30 YEARS

Linear Power output warranty

# WRS-144MH

## PV DRAWINGS



## ELECTRICAL DATA (STC)

Model Type	WRS 535-36V-MH	WRS540-36V-MH	WRS 545-36V-MH	WRS550-36V-MH
Peak Power(Pmax)	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.84	12.93	13.00	13.06
Open Circuit Voltage(Voc)	49.50±3%	49.70±3%	49.90±3%	50.10±3%
Short Circuit Current(Isc)	13.61±3%	13.72±3%	13.81±3%	13.90±3%
Module Efficiency( % )	20.93	21.12	21.32	21.51

\* STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

## ELECTRICAL DATA (NOCT)

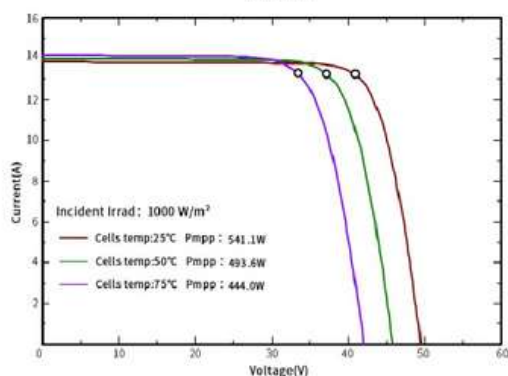
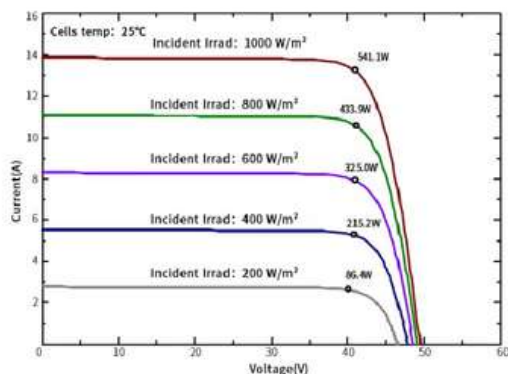
Model Type	WRS 535-36V-MH	WRS 540-36V-MH	WRS 545-36V-MH	WRS550-36V-MH
Peak Power(Pmax)	397.70	401.40	405.10	408.90
Maximum Power Voltage(Vmp)	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.36±3%	46.54±3%	46.73±3%	46.92±3%
Short Circuit Current(Isc)	10.97±3%	11.05±3%	11.13±3%	11.20±3%

\* NOCT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.350 %/°C
Voc Temperature Coefficients (V/°C)	-0.285 %/°C
Isc Temperature Coefficients (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

## IV CURVE (540W)



## MECHANICAL CHARACTERISRTICS

Cell Type	182*91 Mono
No. of Cells	144 (12*12)
Dimensions	2256*1133*35mm
Weight	28.40kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm <sup>2</sup> cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

20FT container	5 Packages/155pcs
40HQ container	20 Packages/620pcs

## WARIS ENERGY SRL

Italy- Via di Vittorio, 19, 38068, Rovereto (TN)

Germany- Im Speitel 9, 76229, Karlsruhe

Turkey- Mimarsinan OSB. 15. Can No:8, Melikgazi

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