

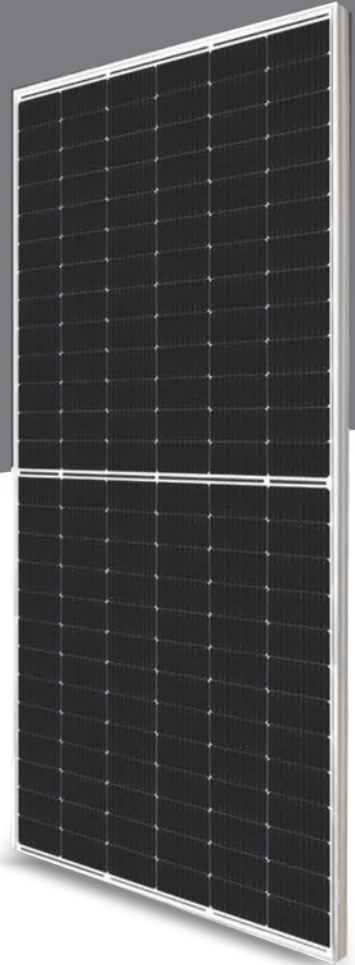
# WRS-108MH

## POWER RANGE

390W~410W

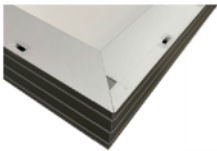
## CELL SIZE

1825\*91mm



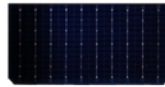
### JUNCTION BOX

Waterproof protection grade: IP67/IP68  
 Safety Level: Class II  
 Maximum System Voltage: 1 500V  
 Outstanding waterproof level, effectively resists harsh environments



### FRAME

Strong mechanical load resistance up to 5400Pa  
 Anodic oxidation layer resistant to chemical corrosion  
 Available in silver and black.



10BB

## QUALIFICATIONS & CERTIFICATES



·IEC61215 / · IEC61730



### 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, to reduce the power loss and increase the output of



### Lower Cost

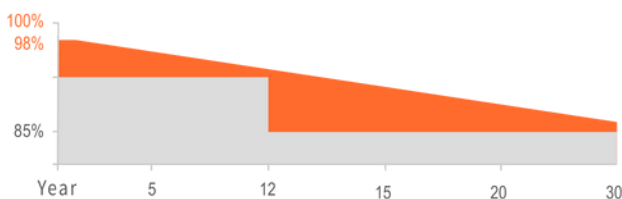
Increasing power generation can reduce the cost per kilowatt-hour



### PID Resistant

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

## WARRANTY

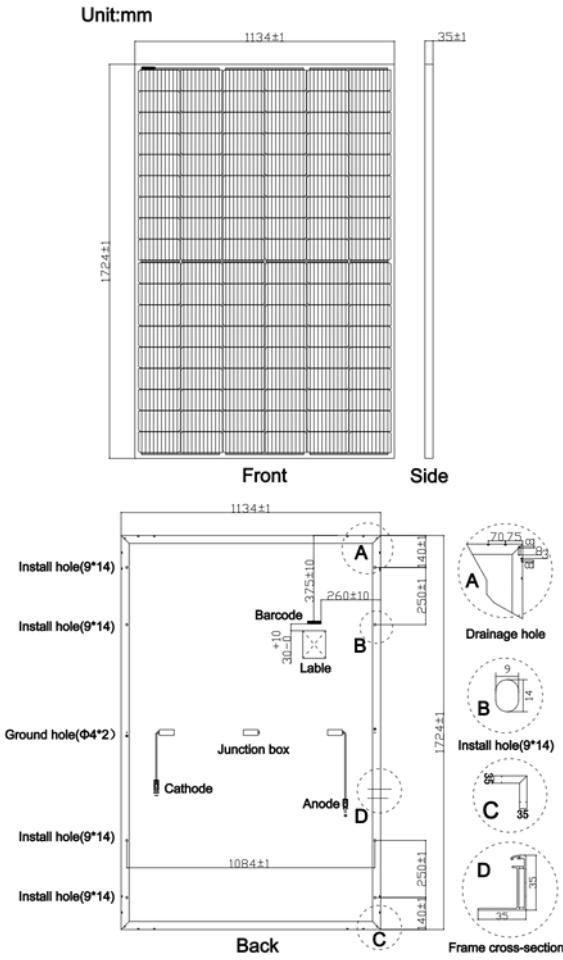


**20 YEARS** Guarantee on product material and workmanship

**30 YEARS** Linear Power output warranty

# WRS-108MH

## PV DRAWINGS



## ELECTRICAL DATA (STC)

Model Type	WRS 390-27V -MH	WRS 395-27V -MH	WRS 400-27V -MH	WRS 405-27V -MH	WRS 410-27V -MH
Peak Power (Pmax)	390.00	395.00	400.00	405.00	410.00
Maximum Power Voltage (Vmp)	30.82	30.98	31.14	31.30	31.46
Maximum Power Current (Imp)	12.66	12.76	12.85	12.94	13.04
Open Circuit Voltage (Voc)	36.65±3%	36.85±3%	37.05±3%	37.25±3%	37.45±3%
Short Circuit Current (Isc)	13.49±3%	13.58±3%	13.67±3%	13.76±3%	13.85±3%
Module Efficiency (%)	19.94	20.20	20.46	20.71	20.97

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

## ELECTRICAL DATA (NOCT)

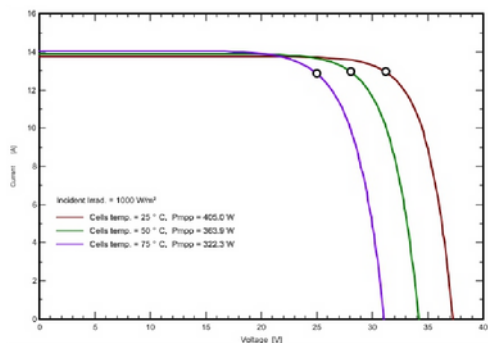
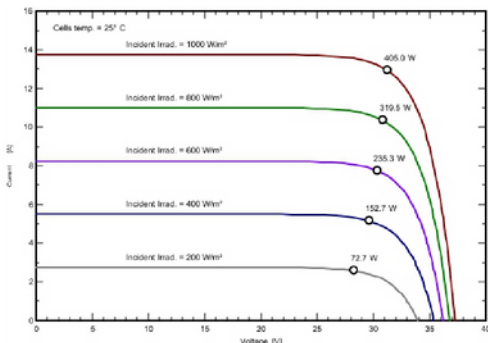
Model Type	WRS 390-27V -MH	WRS 395-27V -MH	WRS 400-27V -MH	WRS 405-27V -MH	WRS 410-27V -MH
Peak Power(Pmax)	290.0	293.7	297.4	301.1	304.8
Maximum Power Voltage(Vmp)	28.56	28.72	28.88	29.04	29.20
Maximum Power Current(Imp)	10.16	10.23	10.30	10.37	10.44
Open Circuit Voltage(Voc)	34.33±3%	34.51±3%	34.69±3%	34.87±3%	35.05±3%
Short Circuit Current(Isc)	10.84±3%	10.92±3%	11.00±3%	11.08±3%	11.16±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
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 %
Pmax Temperature Coefficients (W/°C)	-0.350 %
Voc Temperature Coefficient2s (V/°C)	-0.285 %
Isc Temperature Coefficients (A/°C)	+0.045 %
NOCT Nominal Operating Cell Temperature (°C)	45±2
Operating and Storage Temperature (°C)	-40~+85

## IV CURVE (405W)



## MECHANICAL CHARACTERISTICS

Cell Type	182x91 Mono
No. of Cells	108 (12x9)
Dimensions	1724x1134x35mm
Weight	21.5 kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3 diodes
Output cables	4mm <sup>2</sup> cable 35cm+mc4 connector
MaxWind Load/Snow Load	2400Pa/5400Pa

## PACKING WAY

40HQ container

26 Packages/ 806pcs



## 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

EMAIL: [INFO@WARIS-ENERGY.COM](mailto:INFO@WARIS-ENERGY.COM)

TEL: 0039- 0464- 973892