



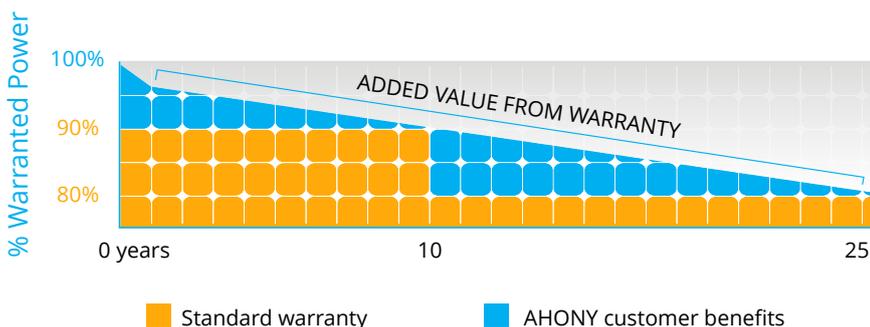
Picture maybe different from actual goods due to cell technology or raw material upgrade.

eMARVEL PREMIUM, ADDED VALUE, COST EFFECTIVE*

AHONY eMarvel series uses leading Japan raw material, high efficiency A grade solar cells and automatically producing machine, experienced ultralight solar panel producing experience. We offer more added value on power output, professional test, industrial standard quality control, after sale service and warranty.

10 YEARS POWER GUARANTEE* 3 YEARS WARRANTY

- ☆ 3 years quality insured, free replacement, maintenance
- ☆ 10 years power output more than 90%
- ☆ 25 years power output more than 80%



MAIN FEATURE*



High efficiency solar cell

AHONY uses leading brand cell and high efficiency A grade quality to insure high and stable output.



Walkable and Anti-slippery

By any means and do not damage cells, the rough anti-slippery surface is safer for installation or maintenance.



Longer lifespan 15years guaranteed

Premium weather or moisture resistance, for harsh environment 15years life guaranteed, over 25years lifespan.



High temp resistance and little power loss

The surface material resists high temperature Flame retardancy UL94 VTM-0. Rugged and insulated bottom reduces area touched surface of yacht, RV, cart etc. Enables air circulation, it cools down panel and get little power loss.



Rigid, thin, light design for widely use

It's rigid to resist hailstone, semi flexible with bend angle less 5 degree, suitable for off grid use, marine, yacht, RV roof, on grid home system, parking lot, portable power generator etc. It's 1/6 thickness 7/10 the weight of glass solar panel.

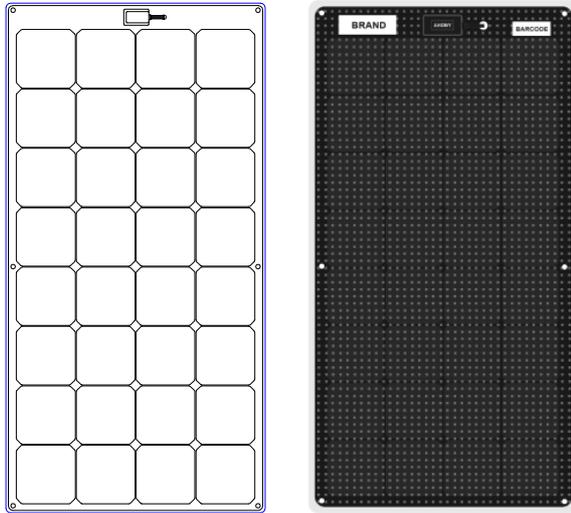
CERTIFICATIONS AND STANDARDS*

- ☆ CE ROHS test and certified
- ☆ High Temperature test
- ☆ High humidity 85% test
- ☆ SGS IEC standard Salt Spray test



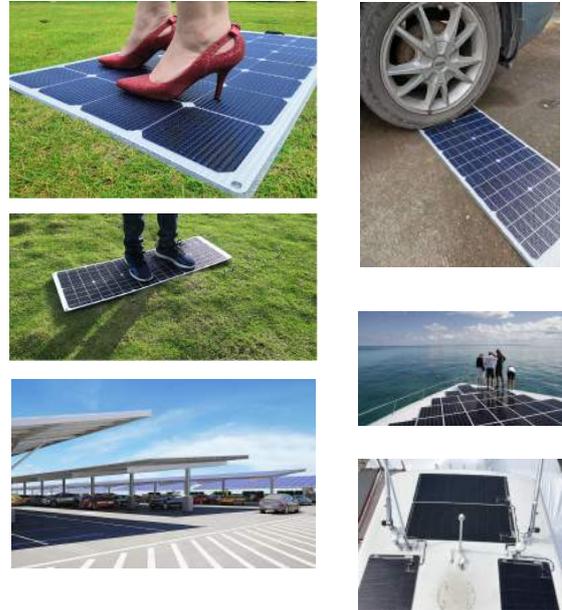
PHYSICAL CHARACTERISTICS

Can walk or drive on it
High pressure hailstone resistance



APPLICATION

*yacht,boat,sailing for long journey;
*mobile retailing store;
*independent off grid solar system.



ELECTRICAL PARAMETERS*

Item	eMarvel 40W	eMarvel 60W	eMarvel 110W	eMarvel 120W	eMarvel 135W	eMarvel 150W
Maximum Power[Wp]	40	60	110	120	135	150
Solar Cell	Monocrystalline back contact solar cell					
Cell Array[Pcs]	3*12	4*9	4*8	4*9	4*10	4*11
Cell Efficiency	22.6%	22.6%	22.6%	22.6%	22.6%	22.6%
Size[mm]	440*580*5	550*645*5	550*1090*5	550*1220*5	550*1350*5	550*1470*5
Max Power Voltage Vmp[V]	20.88	20.88	18.56	20.88	23.2	25.52
Max Power Current Imp[A]	1.92	2.88	5.93	5.75	5.82	5.88
Open Circuit Voltage Voc[V]	24.64	24.64	21.9	24.64	27.38	30.11
Short Circuit Current Isc[A]	2.06	3.1	6.4	6.2	6.28	6.34
Net.Weight[kg]	3	3.2	4	4.2	4.5	5.2
NOCT[°C]	46±2	46±2	46±2	46±2	46±2	46±2
Operating Temperature[°C]	-40/+85					
Temp.Coeffi.Pmax[%/°C]	-0.44					
Temp.Coeffi.Voc[%/°C]	-0.33					
Temp.Coeffi.Isc[%/°C]	+0.06					
Max System Voltage[V]	1000V DC					
Max Reverse Current[A]	10-15					
Safety Class	A					
Certification	CE,RoHS,ISO9001,SGS,IEC					
Flame retardancy	UL 94 VTM-0					
Standard Test Conditions	STC: 1000W/m², AM 1.5 and cell temp 25°C					

* Please refer to our website or ask AHONY representative for the latest parameters.