# 470W

# M6 HALF CELL MONO

GERMAN BRAND SOLAR PANEL

450W-470W
POWER OUTPUT RANGE

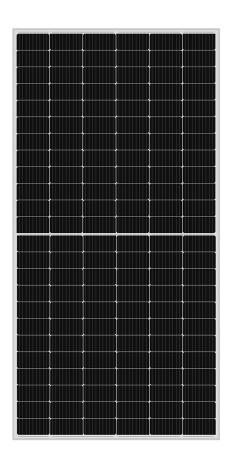
144 CELL
MBB MONO PERC

21.62%
MAXIMUM EFFICIENCY

0 to +5W
POSITIVE POWER TOLERANCE













ology Sand Resistant



sistant Environmentally Friendly





#### **Higher Output of Power**

Effectively reduce the unit cost of PV solar system by watt



# **Optimize the temperature coefficient**

Improve the performance under the condition of shadow and low temperature coefficient



#### Reduce the shadow loss on the power output

Effectively reduce the risk of heat spot on high efficiency



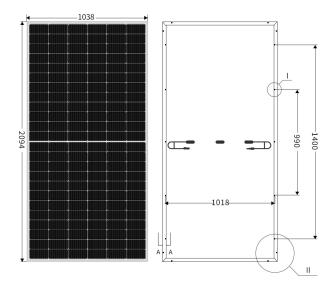
## **Stronger the physical property**

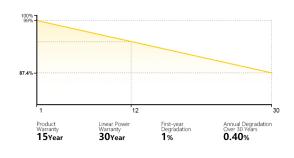
Optimize the property of power generating and reliability of the system

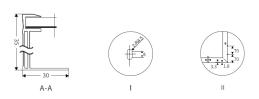


## **DIMENSIONS OF PV MODULE**

## LINEAR PERFORMANCE WARRANTY







## **MECHANICAL DATA**

Solar Cells	Mono PERC
Cell Orientation	144 (6 x 24)
Module Dimensions	2094 x 1038 x 35mm
Weight	23.5kg
Glass	Anti-Reflective, AR Coated and Heat Tempered Solar Glass-3.2mm
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP 68 Rated
Cables	4.0mm², 350mm or Customized Length
Connector	MC4 Compatible
PACKAGE	Modules per Pallet:31 pieces Modules per 40'HQ Container:726 pieces

# **TEMPERATURE RATINGS**

Nominal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of PMAX	-0.35%/℃
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.048%/°C

#### **MAXIMUM RATINGS**

-40°C to +85°C
1500V DC
20A
5400pa
2400pa

MODULE TYPE		HTS-144M6H450		HTS-144M6H455		HTS-144M6H460		HTS-144M6H465		HTS-144M6H470	
Test Environment		STC	NOCT								
Maximum Power	Рмах(W)	450	333.4	455	337.2	460	341	465	344.8	470	348.6
Maximum Power Voltage	VMPP(V)	41.39	38.28	41.59	38.48	41.79	38.68	41.99	38.88	42.19	39.08
Maximum Power Current	Імрр(А)	10.88	8.69	10.95	8.74	11.02	8.79	11.09	8.84	11.16	8.89
Open Circuit Voltage	Voc(V)	50.02	46.68	50.22	46.88	50.42	47.08	50.62	47.28	50.82	47.48
Short Circuit Current	Isc(A)	11.49	9.21	11.56	9.26	11.63	9.31	11.7	9.36	11.77	9.41
Tolerance	(W)	0 ± 5		0 ± 5		0 ± 5		0 ± 5		0 ± 5	
Module Efficiency	(%)	20	).70	20.93		21.16		21.39		21.62	

STC:Irradiance 1000 W/m²,Cell Temperature 25°C,Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1 NOCT: Irradiance at 800 W/m²,Ambient Temperature 20°C,Wind Speed 1m/s.

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