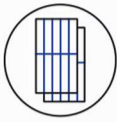


## 445-465W 0-5W Positive Tolerance



### MBB&SMBB Half-cut Cell Technology

New circuit design, lower internal current, and lower Rs loss.



### High Power Density

A new generation of monocrystalline products with reduced resistive losses for greater power output.



### Mechanical Properties

An aluminum frame in special design for better mechanical properties and more efficient installation.



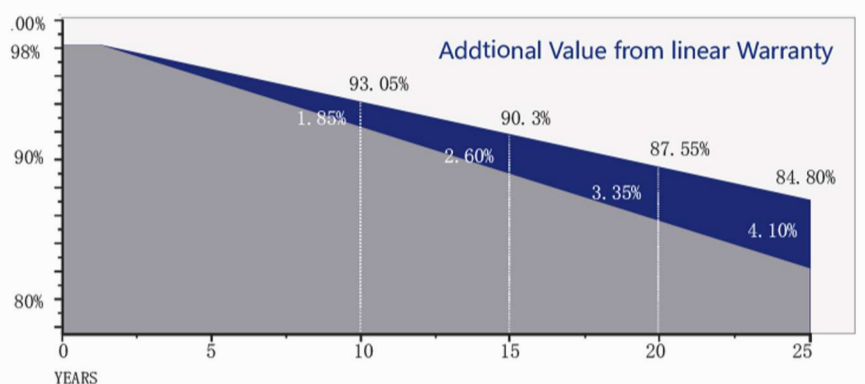
### Excellent Weather Resistance

The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.



### 4 Times 100% EL Detection

Guarantee no micro cracks



### PRODUCT QUALITY SYSTEM & CERTIFICATION



**12years** Material & process Warranty

**25years** Linear Performance Warranty

**0.55%** Linear Power Degradation

### ELECTRICAL PROPERTIES

### SM-166M-72H 144PCS

**STC** : irradiance, 1000W/m<sup>2</sup>; cell temperature, 25°C; spectral range, AM1.5

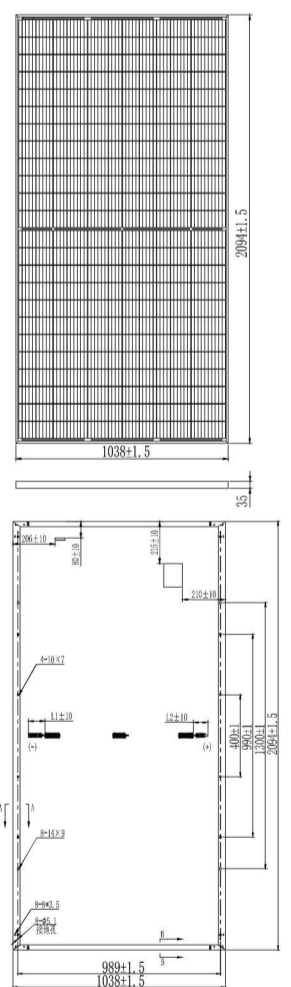
**NOCT**: irradiance, 800 W/m<sup>2</sup>; ambient temperature, 20 °C; spectral range, AM1.5; wind speed, 1m/s

	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power P <sub>mp</sub>	445W	330W	450W	333W	455W	337W	460W	342W	465W	346W
Open Circuit Voltage-V <sub>oc</sub>	49.9V	47.2V	50.0V	47.2V	50.1V	47.3V	49.7V	47.1V	49.9V	47.3V
Short Circuit Current-I <sub>sc</sub>	11.72A	9.46A	11.83A	9.55A	11.96A	9.66A	11.78A	9.51A	11.85A	9.56A
Max Power Voltage-V <sub>mp</sub>	41.0V	38.7V	41.1V	38.8V	41.4V	38.9V	41.9V	39.7V	42.1V	39.9V
Max Power Current-I <sub>mp</sub>	10.86A	8.53A	10.96A	8.58A	10.99A	8.66A	10.99A	8.61A	11.05A	8.67A
Module Efficiency STC-η <sub>m</sub>	20.5%		20.7%		20.9%		21.2%		21.4%	
Power Tolerance(W)	0~+5W									
Maximum System Voltage	1500V DC									
Max Serie Fuse Rating	20A									

STC: irradiance 1000W/m<sup>2</sup> module temperature 25°C AM=1.5

NMOT: irradiance of 800W / m<sup>2</sup>, ambient temperature 20°C, and wind speed 1m / s

Technical drawings



### Temperature characteristic

P <sub>max</sub> Temperature Coefficient	-0.35 %/°C
V <sub>oc</sub> Temperature Coefficient	-0.26 %/°C
I <sub>sc</sub> Temperature Coefficient	+0.047 %/°C
Operating Temperature	-40~+85 °C
Nominal module operation temperature	45 ± 2 °C

### Mechanical Specifications

External Dimension	2094*1038*35mm
Weight	23.5kg
Solar Cell	Mono crystalline 166*83mm, 144 (6*24)
GLASS	High transmission tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes, MC4 compatible
Output Cables	4.0mm <sup>2</sup> , 200mm(+)/300mm(-) or Customized Length
Mechanical Load	Front side 5400pa/Back side 2400pa
Packaging Configuration	31pcs / box, 682pcs / 40' HQ Container

