

The logo for TW SOLAR, featuring a stylized sun icon to the left of the text "TW SOLAR" in white, with "660-680 Wp" in white below it.

**TW SOLAR**  
**660-680 Wp**

**TWMPF-66HS660-680W**



**Cells**

132



**Efficiency**

Up to 21,9%



**Module dimensions**

2384 X 1303 X 35 mm



**Module characteristics**

Anodised aluminium frame



**Packaging**

31 modules per pallet,  
558 modules per 40'HC



**Technology**

P-Type



**Product warranty**

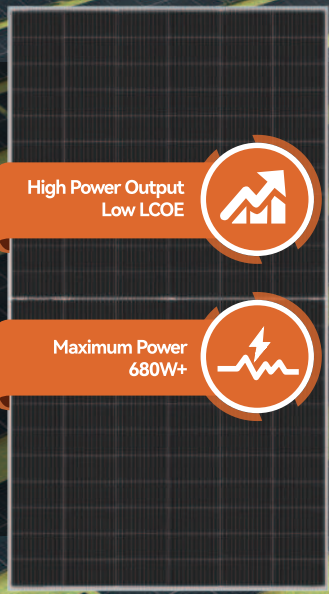
12 years warranty




**Performance warranty**

25 years warranty






High Power Output  
Low LCOE



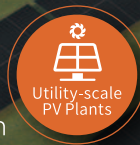
Maximum Power  
680W+



# TWMPF

P-type Half-cell  
Monofacial Module (66)

## 66HS660-680W

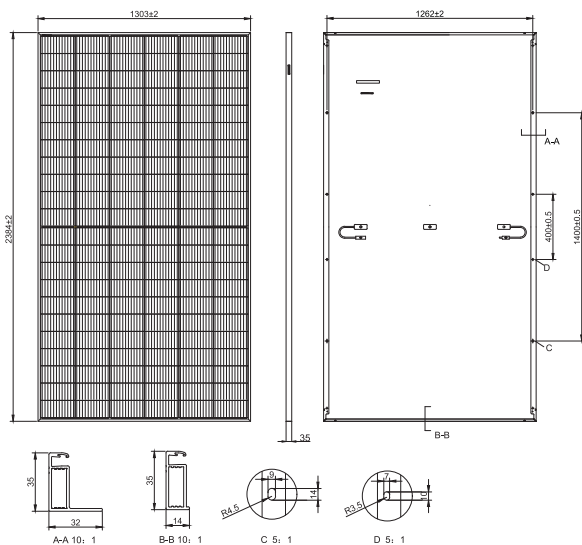


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**DRAWINGS (Unit: mm)**



**MECHANICAL PARAMETERS**

Cells	TPC (P Type Monocrystalline Cell)
Cell Orientation	132[6X22]
Dimension	2384±2X1303±2X35mm
Weight	34.2kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm <sup>2</sup>
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 558pcs per 40'HC

**ELECTRICAL CHARACTERISTICS (STC)**

Module Type: TWMPF-66HSXXX					
Maximum Power: Pmax [W]	660	665	670	675	680
Open Circuit Voltage: Voc [V]	45.60	45.80	46.00	46.20	46.40
Short Circuit Current: Isc [A]	18.55	18.60	18.65	18.70	18.75
Voltage at Maximum Power: Vmp [V]	37.80	38.00	38.20	38.40	38.60
Current at Maximum Power: Imp [A]	17.46	17.50	17.54	17.58	17.62
Module Efficiency: η [%]	21.2	21.4	21.6	21.7	21.9

**ELECTRICAL CHARACTERISTICS (NMOT)**

Maximum Power: Pmax [W]	499.4	503.1	506.9	510.7	514.5
Open Circuit Voltage: Voc [V]	42.96	43.14	43.33	43.52	43.71
Short Circuit Current: Isc [A]	14.96	15.00	15.04	15.08	15.12
Voltage at Maximum Power: Vmp [V]	35.26	35.45	35.64	35.83	36.01
Current at Maximum Power: Imp [A]	14.16	14.19	14.22	14.25	14.29

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%  
 \* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

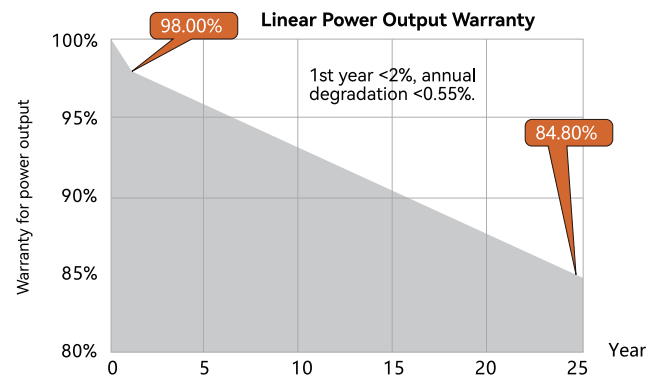
**TEMPERATURE PARAMETERS**

Temperature Coefficient (Pmax)	-0.33%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.05%/°C
NMOT	45±2°C

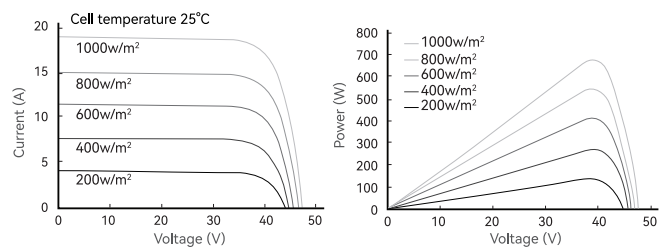
**MAXIMUM RATINGS**

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+5W

**WARRANTY**



**I-V CURVE**



**CERTIFICATIONS**

**Quality Management System and Product Certification**

- ISO 9001: 2015/Quality management system
- ISO 14001: 2015/Environmental management system
- ISO 45001: 2018/Occupation health safety management system
- ISO 50001: 2018/Energy management system
- IEC 62941: 2019/Quality system for PV module manufacturing
- IEC 61215/61730, IEC 62804(PID), IEC 61701(Salt), IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

