

# Thin Film Solar Modules Detailed Specification

## Features

I Adopt advanced processing technology of making amorphous/crystalline thin film cell, stable performance;

I Imported European production line;

I Carbon steeled bracket

I Modular design, quick and easy installation, solid and reliable connection

I Exquisite appearance

- Anti-reflective coating: AR used reduce the reflectivity enhance transmittance.
- Tempered Glass: Low Iron and AR coating glass increase the power output and mechanical strength of solar module. Mechanical load  $\geq 2400\text{Pa}$  , transmittance  $\geq 91.6\%$
- EVA: Transmittance  $\geq 91\%$  , Adhesive Capacity  $> 85\%$
- Cell: 17.9% of high efficiency solar cells to sure 15.7% module efficiency
- Back sheet: Using higher quality back sheet to prevent destroying and water , it's reflectivity  $\geq 87\%$ , peeling strength  $\geq 40\text{N/cm}$ .
- Aluminum Frame: Anodized aluminum alloy to effectively improve the corrosion resistance and strength.

## Power range:250w-270W

Module	MAC-250MB-60	MAC-255MB-60	MAC-260MB-60	MAC-265MB-60	MAC-270MB-60
Pm	250	255	260	365	270
Vmp	30.49	30.92	31.18	31.48	31.73
Imp	8.20	8.25	8.34	8.42	8.51
Voc	38.00	38.10	38.20	38.31	38.42
Isc	8.78	8.84	8.92	8.96	8.99

## Mechanical Characteristics:

Cells size(mm)	156X156
Modules size(mm)	1640X992X40
No. of cells	60(6X10)
Weight(KG)	18.1
No.of mounting holes	8
No.of waterspout	16

## Temperature Coefficient:

NOCT	45°C±2°C
Temperature coefficient of Isc	0.05%/°C
Temperature coefficient of Voc	-0.33%/°C
Temperature coefficient of Pmax	-0.44%/°C
Power Tolerance	0/+3%
Working temperature	-40°C to 85°C

## Solar panel data sheet

<b>MAC-TFS120</b>	
<b>CHARACTERISTIC</b>	
Substrate	TCO Glass
Panel Type	Tandem (a-Si/μc-Si)
<b>ELECTRICAL PERFORMANCE</b>	
Maximum Power(W)	120
Maximum Power Voltage (V)	51.5
Maximum Power Current (A)	2.33
Output Circuit Voltage (V)	72.45
Short Circuit Current (A)	2.63
Maximum System voltage(V)	1000
Maximum Series Fuse Rating(A)	6
<b>MECHANICAL SPECIFICATION</b>	
Length(mm)	1300
Width(mm)	1100
Height(mm,Junction Box not included)	6.8
Weight (kg)	25
Area(m2)	1.43
Materials	White EVA
Permitted module temperature on continuous duty	-40°C bis +85°C
<b>QUALIFICATIONS AND CERTIFICATES</b>	
CE,TUV Rheinland	
In Stock	

## Thin-film (amorphous)



Solar panel



Solar cell

