MPPTSUN®
易 科

# DONGGUAN SUNWORLD CO.,LTD

**SUNWORLD** Founded in **2011,**

It is a **Hong Kong** funded enterprise focusing on high quality Solar panels. It owned production factory, located in Dongguan City**，JinBoLi** Industry Park, Specializes in the production, R & D and sales of solar panels, flexible solar panels, controllers, folding bags and power generation systems.

The products are widely used in photovoltaic power generation system, off grid power generation, outdoor power supply, RV, street lamp, monitoring and security, water conservancy monitoring, Internet of things power generation and other fields,

**With 12 years** of foreign trade export experience, the products are exported to the United States, the European Union, Japan, more than 50 countries , and the factory has obtained **ISO9001, IEC, CE, ROHS, SGS, CNAS, Cerfication.**

**SUNWORLD** has been committed to becoming a world-class supplier of solar green energy solutions, serving the whole mankind

# 50W Solar Panel Spe

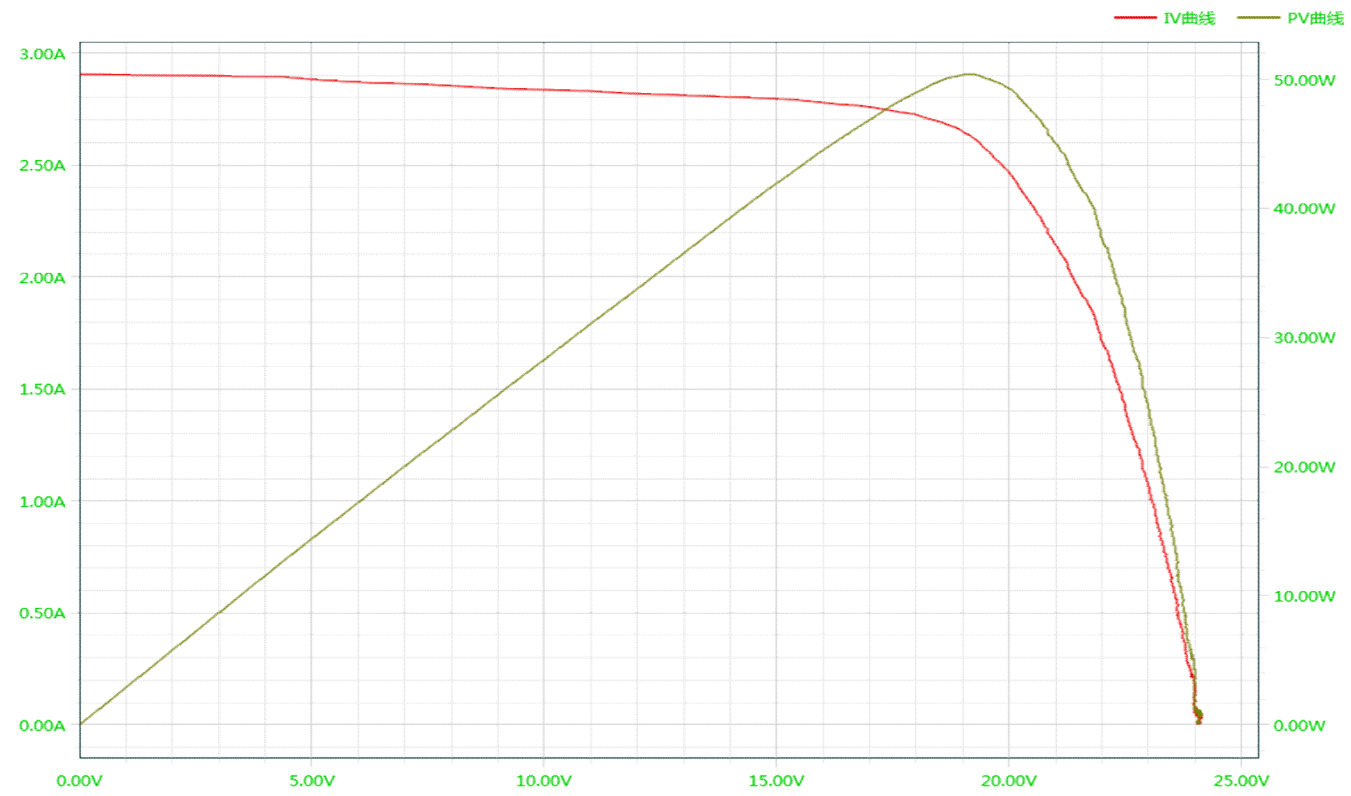
## 1、 Electrical parameters

| | |
|---|---|
| Solar Panel Type | SWM50W |
| Maximum Power | 50W |
| Voltage at Pmax | 18.68V |
| Current at Pmax | 2.68A |
| Open-Circuit Voltage | 22.30V |
| Short-Circuit Current | 2.82A |
| Solar Cell Efficiency | 20%-22% |
| Power Tolerance | ±5% |
| Working Temperature | -40℃-+80℃ |
| Power Temperature Coefficient | -0.43%℃ |
| (STC): irradiation1000w/ ㎡, temperature 25 ℃, air quality AM1.5, output power error: ± 5%] | |

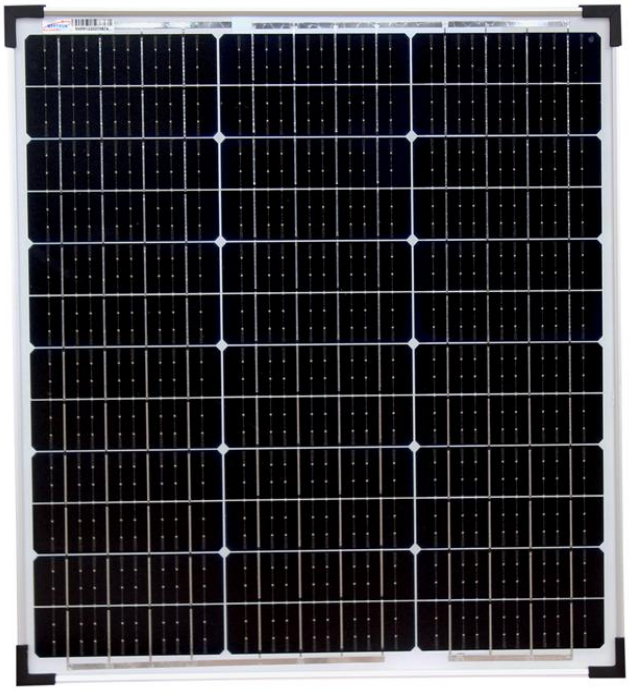
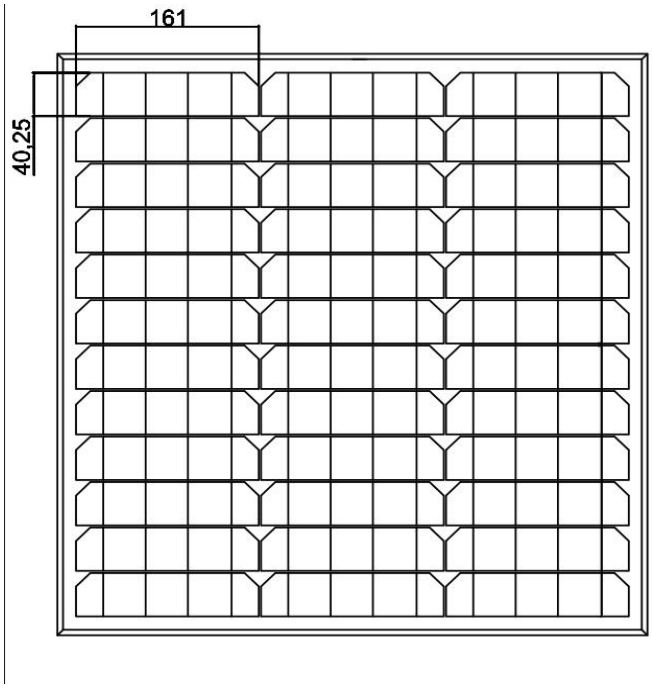
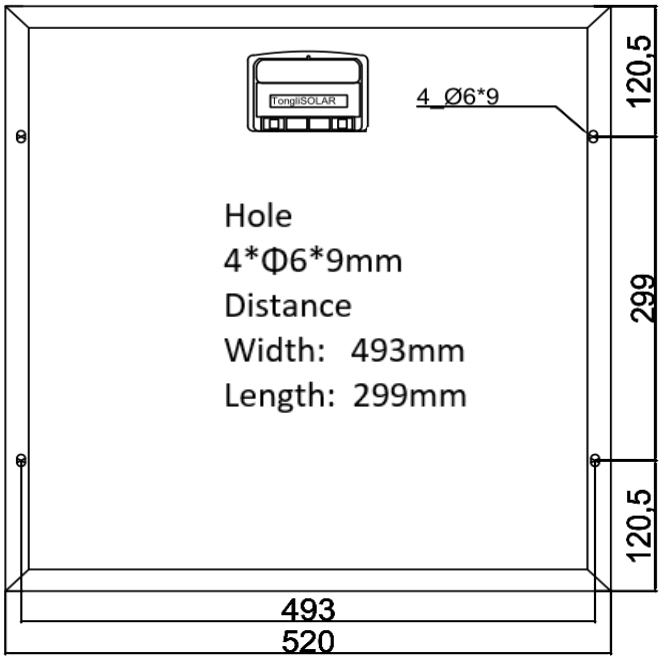
## 2、 Mechanical Parameters

| | |
|---|---|
| Solar Cell Type | Monocrystalline |
| Cell Main Line | 9BB/12BB |
| Cell Width | 158.75/161.75/166/182 |
| Cell Array | 36pcs 3*12 |
| Panel Size | 540*520*25*20mm |
| Weight | 3.3KG |
| IP Injunction Box | IP65 |
| Cable | PV2.5 90CM+MC4 |
| Plastic Holder | 4pcs*25*20mm |
| Diode Protect | 1*10A Diode |
| Maximum System Voltage | 1000 VDC |
| Wind Coefficient Protection | 60m/s(200kg/sq.m) |
| Laminated Structure | 3.2mm glass+EVA+Cell+EVA+Backsheet+Frame |
| Package | Plastic+Foam+Carton，2pc/carton |

## 3、IV and PV Curve Chart



# 4、Front and Back Photo



# 5、Product Drawing and Holes