

SOLAR MODULES

Features & Performance



Our solar modules have been certified by TUV, IEC, CE, ISO9001, ISO14001, OHSAS18001 etc. As we are a PV manufacturer leader in Indonesia, high quality and high efficiency are our prioritized goal. We promise to supply our optimized products to customers.

- Beautiful strong EVA packing bag, convenient to take & carry
- Waterproof controller and various harnesses package
- Can be used for camping, outside working and many other outdoor applications

- ☞ **Maximum Power** : 150Wp
- ☞ **Module Efficiency** : 15.97%
- ☞ **Product Warranty** : 10 years
- ☞ **Power Warranty** : 10 years $\geq 90\%$
25 years $\geq 80\%$

ST36M3/ 150-FDP
ST36M3/ 120-FDP
ST36M3/ 90-FDP



Mechanical Property

- ☞ Snow loads up to 5400Pa
- ☞ Wind loads up to 2400Pa

Low Light Performance

- ☞ Excellent performance under low light (morning, evening and cloudy days)

High Durability

- ☞ Durable PV modules, independently tested for harsh environmental conditions, such as exposure to salt mist, ammonia and known PID risk factors.



Electrical Performance (STC: AM 1.5, 1000W/m², 25°C)

Module Type	ST36M3/150-FDP	ST36M3/120-FDP	ST36M3/90-FDP
Maximum Power (P _{max} / W)	150 (50*3)	120 (40*3)	90 (30*3)
Power Tolerance	± 3%		
Maximum Power Voltage (V _m / V)	17.8	17.6	17.4
Maximum Power Current (I _m / A)	8.43	6.82	5.18
Open Circuit Voltage (V _{oc} / V)	21.4	21.2	21.0
Short Circuit Current (I _{sc} / A)	9.19	7.44	5.65
Module Efficiency (%)	15.97	14.40	13.48

Temperature Properties

Operation Conditions

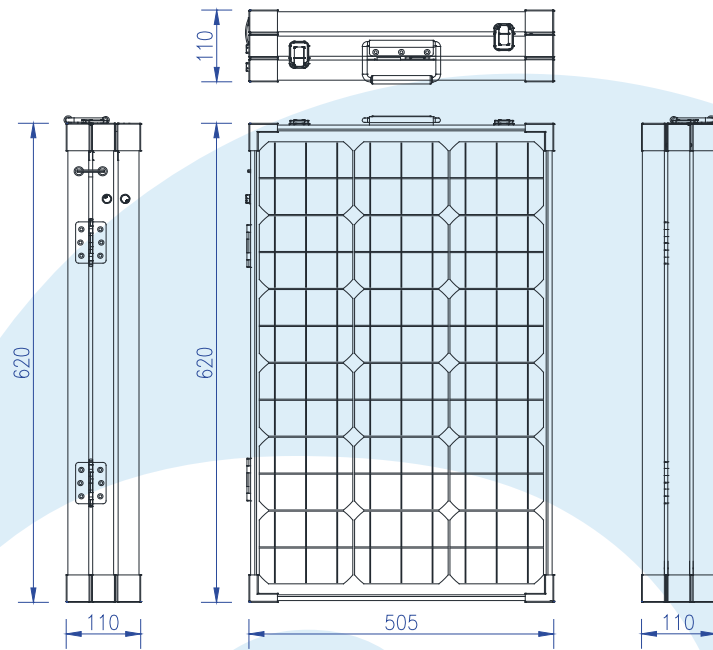
Normal Operating Cell Temperature	45±2 °C	Maximum System Voltage (VDC)	1000 (IEC)
Temperature Coefficient of P _m	-0.4 %/°C	Maximum Series Fuse Rating (A)	10
Temperature Coefficient of V _{oc}	-0.346 %/°C	Operating Module Temperature (°C)	-40 to +85
Temperature Coefficient of I _{sc}	+0.046 %/°C		

Mechanical Properties

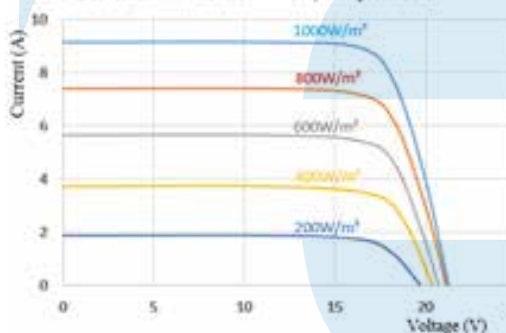
Dimensions(LxWxH / mm)	620x505x110 (30x25)	550x505x110 (30x25)	645x345x110 (30x25)
Weight (Kg)	11.8	10.5	6
Solar Cells	Monocrystalline / Polycrystalline		
No. of Cells(pcs)	108 (3x3x12)		
Container 20GP(pcs)	378	396	588
Container 40HC(pcs)	966	1008	1288

Accessories

1. Advanced fully automated solar charge controller with enhanced protection functions
2. Fuse and SB50 connector cable set; 4m extension cable with SB50 connectors sets
3. Crocodile clips cable set; SAE connector cable set; Ring terminal cable set; Case and User manual



I-V Curves at different irradiances, Temp.cell 25°C



I-V Curves at different cell temperatures, AM1.5, 1000W/m²

