

SOLAR MODULES

Features & Performance

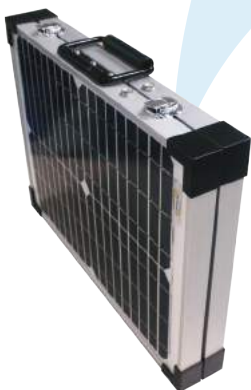


Our PV modules have been certified by the TUV, CE, CSA; SKY ENERGY is certified by ISO9001, ISO14001, OHSAS18001 etc. As a leading PV manufacturer in Indonesia, our prioritized goal is to keep developing and producing high quality and high efficiency modules.

- 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** : 120Wp
- ☞ **Module Efficiency** : 14.48%
- ☞ **Product Warranty** : 10 years
- ☞ **Power Warranty** : 10 years $\geq 90\%$
25 years $\geq 80\%$

ST36M2/ 120-FDP
ST36M2/ 80-FDP
ST36M2/ 40-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	ST36M2/120-FDP	ST36M2/80-FDP	ST36M2/40-FDP
Maximum Power (Pmax / W)	120 (60*2)	80 (40*2)	40 (20*2)
Power Tolerance	± 3%		
Maximum Power Voltage (Vm / V)	17.9	17.7	17.5
Maximum Power Current (Im / A)	6.71	4.52	2.29
Open Circuit Voltage (Voc / V)	21.5	21.3	21.1
Short Circuit Current (Isc / A)	7.25	4.88	2.47
Module Efficiency (%)	14.48	14.51	12.33

Temperature Properties

Operation Conditions

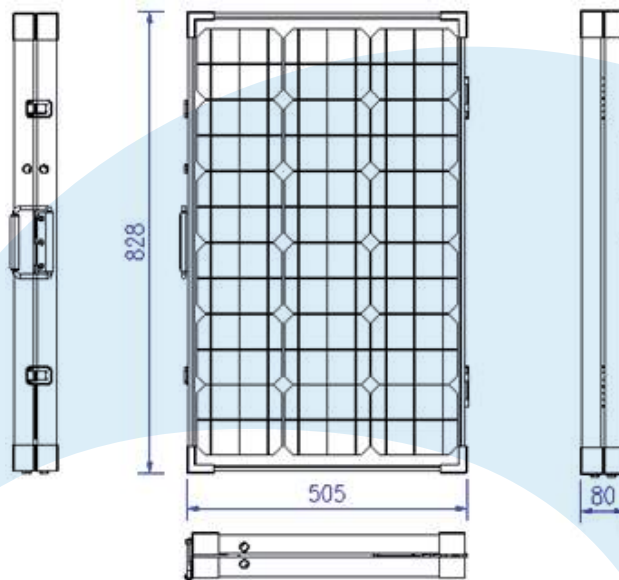
Normal Operating Cell Temperature	45±2 °C	Maximum System Voltage (VDC)	1000 (IEC)
Temperature Coefficient of Pm	-0.4 %/°C	Maximum Series Fuse Rating (A)	10
Temperature Coefficient of Voc	-0.346 %/°C	Operating Module Temperature (°C)	-40 to +85
Temperature Coefficient of Isc	+0.046 %/°C		

Mechanical Properties

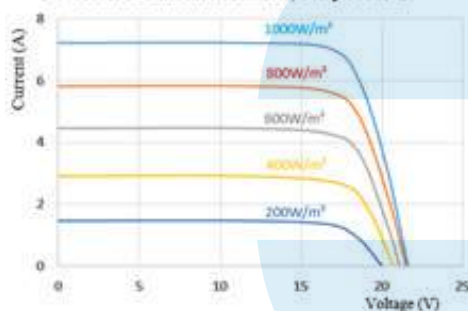
Dimensions(LxWxH / mm)	824x503x80(35x30)	548x503x80(35x30)	470x345x70(30x25)
Weight (Kg)	12.8	9.3	6
Solar Cells	Monocrystalline / Polycrystalline		
No. of Cells(pcs)	72 (2x3x12)		
Container 20GP(pcs)	396	512	936
Container 40HC(pcs)	900	1260	2436

Accessories

1. Two Junction Boxes with MC 4 Connectors
2. Case Bag



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



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

