

GGXingEnergy®



As a full experienced folding solar panel kit manufacturer, GGXing Energy always keep developing more portable and powerful folding solar panel kit. We will have the ability to provide you the good product and also reliable service. Welcome to buy folding solar panel kit sample or ask the folding solar panel kit price.

#### **100W ETFE Folding Solar Panel Kit**

Please kindly refer below details for the GGXingEnergy® 100w folding solar panel kit. We have several similar 100w models, this design will be the most cost efficient one.



**100W ETFE Folding Solar Panel Kit Parameter**

Solar Panel Max Power	100W
Solar Type	A-grade monocrystalline solar cell
Solar Cell Efficiency	22%
Optimum Operating Voltage (Vmp)	18V
Optimum Operating Current (Imp)	5.5A
Open-Circuit Voltage (Voc)	21.5V
Short-Circuit Current (Isc)	6.1A
Solar Panel Folds	2
Output	USB Port: 5V/2.1A (max) QC3.0 Port: 5V-3A or 9V-2.5A or 12V-2A, 24W (max) TYPE-C Port: 5V-3A or 9V-3A or 12V-3A or 15V-3A or 20V-3A, PD60W (max) DC Port: 18V/5.5A (max, at no-load condition)
Test Condition	STC Irradiance 1000W/m <sup>2</sup> , TC=25°C, AM=1.5
Operating Temperature	14°F—149°F (-10°C—+65°C)
Extended Size	42.52*21.26*0.98inch
Folded Size	21.26*21.26*1.57inch
Weight	8.15lbs
Color	Black / Camouflage
Warranty	1 year
Certification	CE / RoHS

**100W ETFE Folding Solar Panel Kit Description**

1), New ETFE technology

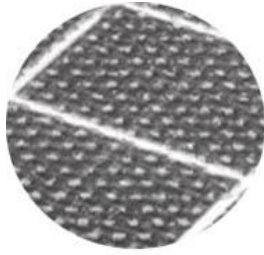
The new ETFE technology can make a folding solar panel kit be more powerful and durable, and also serve longer time for outdoor use.

The current PET folding solar panel kit is with frosted surface, which can be against scratching. But if sharp thing on it, it can be still scratched. Thus the ETFE surface can be much better for being scratch-proof.

The PET surface is smooth, but the ETFE is uneven. Thus due to the light refraction on the regular uneven honey comb structure, the folding solar panel kit can get 10% more sunlight.

When the folding solar panel kit is becoming hotter, its power efficiency will be down. The ETFE material can be better for heat resistance than PET one.

After one year the PET material may be aging if it is often exposed under sunshine, thus the ETFE one may be with the aging situation after 3 years.



Scratch-Proof

Higher Light  
Transmittance

Durable

Temperature  
Resistant

## ETFE Lamination



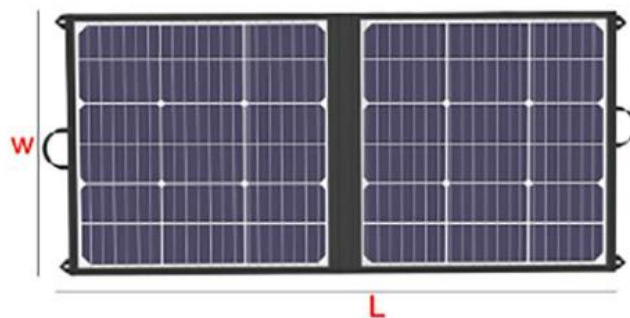
2), Being more portable

This 100w folding solar panel kit is only 2 folds. There is no complex extended and folded way. Just pull the Velcro near the handle, then the folding solar panel kit will be opened and you can begin the use. Then close the solar panels, and stick well the Velcro, you can carry the 100w folding solar panel kit to anywhere.

Dimensions(Unfolded):  
**42.52\*21.26\*0.98inch**

Dimensions(Folded):  
**21.26\*21.26\*1.57inch**

Weight:  
**8.15lb**

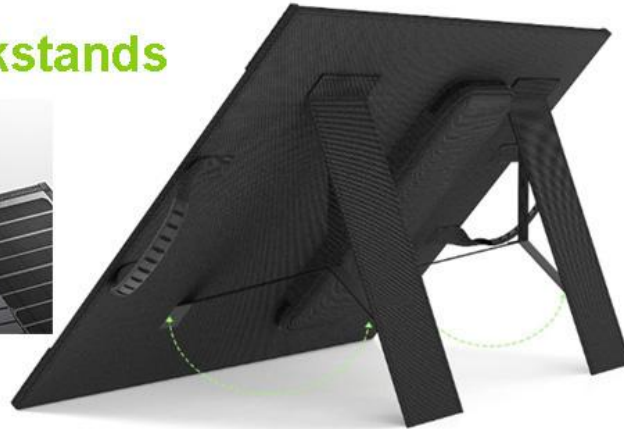


3), With more humanized design

The pocket is enlarged. So that it can hold more accessories, like solar controller and extended connecting cable. The zipper is updated with better material. It can be waterproof and protect well the inside USB junction box and cable out ports.

At back of this 100w folding solar panel kit, there are two adjustable kickstands. Via this, you do not need to find something to brace the folding solar panel kit again to ensure it can face sunlight at a right angle for better charging.

## Adjustable Kickstands






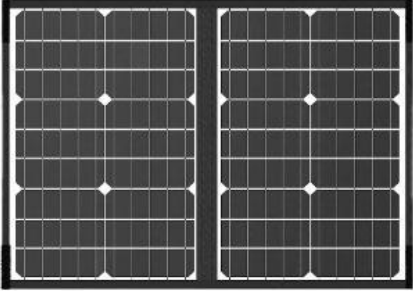









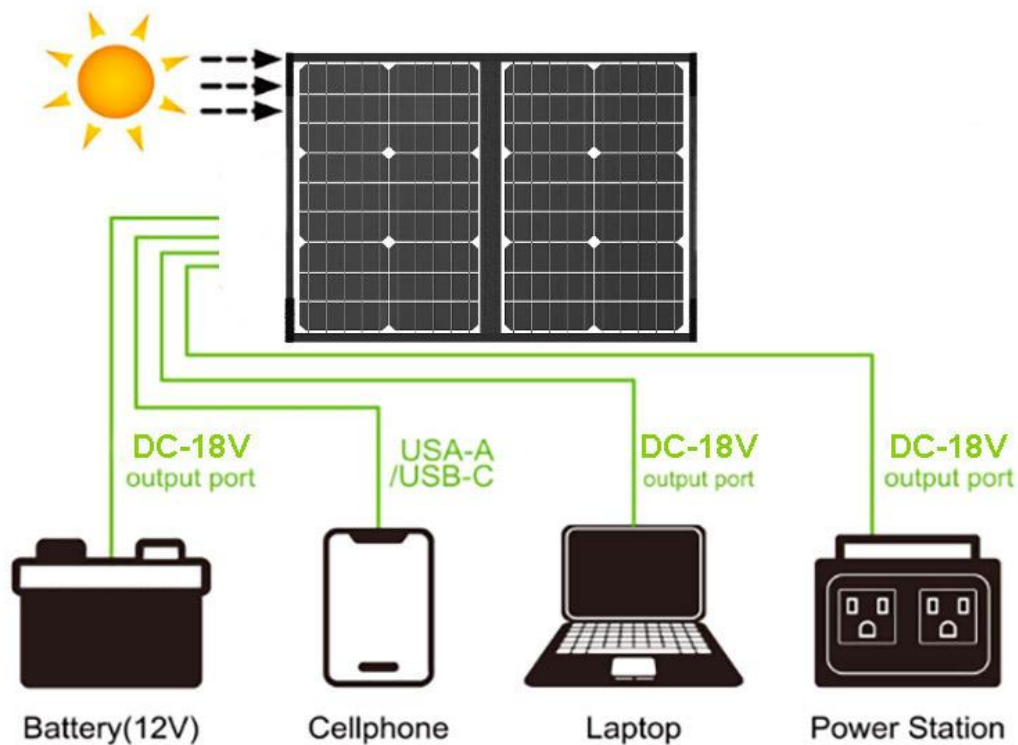
A 2m output cable is added. Some companies make the DC port as this. There is only an external short converting cable to realize the connection with the DC output port. It may be easy to be disconnected and embarrassed for use. But we make the cable be out from the folding solar panel kit or out from the junction box directly. No worry for the loose exception again. Also a longer cable can let you put the folding solar panel kit under sunshine and the charged device at shadow.

4), More and more functional

This GGXingEnergy® 100w folding solar panel kit can charge kinds of devices for your outdoor use, such as portable power station, solar system, laptop, 12v batteries, tablet, phone, power bank, PSP, GPS, camera, switch, Apple watch, an USB supported unit or QC3.0 and PD protocol electronic devices.



 <p>Tablet</p>	 <p>Drone</p>	 <p>Camera</p>	 <p>Phone</p>
 <p>Laptop</p>			 <p>Camping</p>
 <p>Outdoor</p>			 <p>Climbing</p>
 <p>Travel</p>	 <p>Trek</p>	 <p>Hiking</p>	 <p>Portable power station</p>



#### Kind Remarks for 100W ETFE Folding Solar Panel Kit

a, The accessory list for this 100w folding solar panel kit is as below.

10 x DC adapters

1 x 0.5m DC 5521-5521 converting cable

1 x solar controller with battery clips (OPTIONAL)

Please kindly note that here a solar controller will not be included in the package.

We suggest to use a solar controller for charging protection, if you use the folding solar panel kit to charge a 12v battery. You can tell us your battery voltage and battery type for us to match a good solar controller for you.

b, If a portable power station can accept 18v and current up to 5.5A for charging, then this 100w folding solar panel kit can charge it. Also, please firstly confirm well the right charging voltage and current for your portable power before buying any kind of folding solar panel kit.

c, Among the 10 DC connectors, 8mm, 5.5x2.1mm, 5.5x2.5mm, 3.5x1.35mm are suitable for most of portable power stations on market. Or if there is no right connector for you, it can be still added.

## Different sizes of DC connectors for most solar generators



d, A laptop with DC 16V to 24V can be powered by this 100w folding solar panel kit. The 10 DC adapters can suit for brands of laptops on market. There is no connector for Macbook. It can be charged via the Type-C port on the folding solar panel kit with its original type-c cable.

e, The four outports on the 100w folding solar panel kit can work together. But we suggest to use them as per sunshine condition. If sunshine is not strong enough, only using one port can ensure better charging result. There is no USB charging cable in the package. We suggest to use the devices' own original cable for better charging.

f, This GGXingEnergy® 100w folding solar panel kit fits for IP54 waterproof level. It can be against water splashing, but not good for heavy rain situation or being soaked in water. The output port and junction box are totally not waterproof.





# MONOCRYSTALLINE SOLAR PANEL



Waterproof

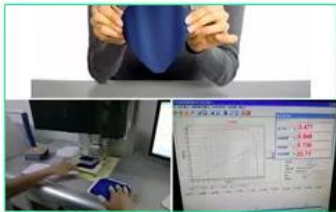
Dust Resistant

## ETFE TECHNOLOGY



g, For real usage, it is normal that the output power you getting will be always less than declared 100w. But this never means it is a defective folding solar panel kit. Its real power is 100w. GGXing Energy will never write a fake power for our folding solar panel kit. The final power is decided by many factors. The most importable one is sunshine intension. Also use condition like heat radiation rate, shadow and sunshine exposure area on solar panel surface or the load's consumption will cause power losing.

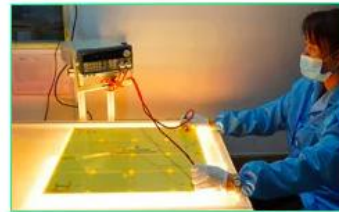
## Production Process



**Power output testing for solar cell**



**Solar panel lamination**



**Power output testing for solar panel**



**Pre-production preparation**



**Sewing on the solar panels**



**EL testing for foldable solar panel**



**Power output testing for finished product**



**Finished products waiting for clean**



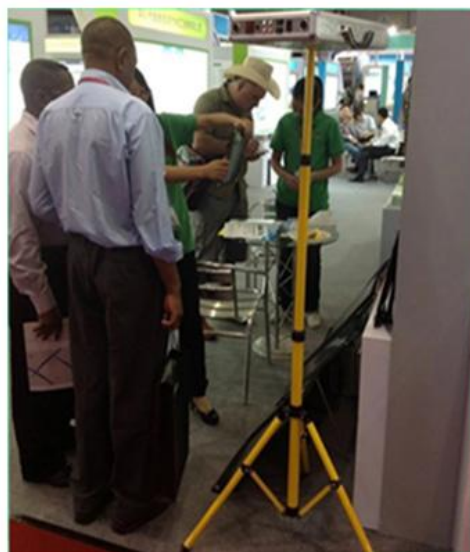
**Finished products waiting for packing**

## Packing & Transport





## Exhibition





## Certification

