

As a professional manufacture located in Shenzhen, China, GGXingEnergy has been engaged in developing products to meet the various demands for the solar products and solutions from various markets all over the world since the foundation. Now on the market, the ETFE solar panels are more and more popular benefitted to the better quality and longer service life. We would like to provide you a new ETFE 100w foldable solar panel charger.

The following is the introduction of high quality 100w foldable solar panel charger, hoping to help you better understand the new ETFE 100w foldable solar panel charger. Welcome new and old customers to continue to cooperate with us to create a better future!

### **100W Foldable Solar Panel Charger**

An up-graded and high quality GGXingEnergy ETFE 100W foldable solar panel charger.

### **100W Foldable Solar Panel Charger Parameter**

Solar Panel Max Power: 100W

Solar Cell Type: A-grade monocrystalline

Solar Cell Efficiency: 23%

Solar Craft: solar panel with ETFE film laminated together with cloth

Optimum Operating Voltage (Vmp): 18V

Optimum Operating Current (Imp): 5A

Open-Circuit Voltage (Voc): 21.5V

Short-Circuit Current (Isc): 5.7A

Output:

built-on DC 18V port / 5A (max) + external USB controller / QC3.0-5V3A, 9V2.5A, 12V2A (max); USB 5V2A (max)

(Measured at STC Condition: irradiance: 1000W /m<sup>2</sup>; AM1.5; Spectrum-Temperature: 25°C)

Output Interface: MC4 / Andson / SAE / DC, etc.

Waterproof: IP67 (the DC port and external controller are not waterproof)

Folded Size: 530\*360 mm / 21\*14 inch

Unfolded Size: 1130\*530 mm / 45\*21 inch

Net Weight: 4.0 kg / 8.8 lb

Color: Black

### **100W Foldable Solar Panel Charger Feature**

The 100w foldable solar panel charger is updated with ETFE film. What advantages are the ETFE film? ETFE (Ethylene tetrafluoroethylene) is a fluorine-based plastic, which is created with high corrosion resistance and is considered to have the same long lifespan as tempered glass when used in the solar industry.

Its thickness is only 0.025mm, with better flexibility and lighter weight. It has excellent chemical properties.

With higher light transmittance, generally 96%-98%, similar to the tempered glass solar panel, but with much lighter weight. Such a high light transmittance can let this 100w foldable solar panel charger be more efficient with sunlight converting.

With strong durability, it is considered as the lifespan can be more than 10 years. Thus a general PET foldable solar panel will have efficiency losing around 2 years later.

With the high temperature resistance, it can withstand temperature up to 150 centigrade.

So compared to other general PET foldable solar panels, this 100w foldable solar panel charger will not be scorched at such a hot summer.

ETFE film is more dust-proof, and with self cleaning function. Therefore if the 100w foldable solar panel charger with such film material, it will no need much work in the maintenance. Unlike other solar panels, whose surfaces are easy to catch dust and dirt, and you will need to clean them by hand regularly. Thus this ETFE 100w foldable solar panel charger doesn't have such concern.

### **100W Foldable Solar Panel Charger Application**

This is a high grade 100w foldable solar panel charger, which can provide a free and green solar charging way for your car, RV, truck, boat, portable power station, laptop, smartphone, tablets, power bank... This 100w foldable solar panel charger will be great for your outdoor travelling, camping, and other activities.

USB port, USB QC3.0 (max 24W), realizing quick charging for your 5V USB powered devices via their original charging cables.

18V DC port, super perfectly charging kinds of laptops (with 10 x adapters plug in and play), 12v batteries (with battery clamps), portable power stations (with 8mm / 5.5 \* 2.1mm / 3.5 \* 1.35mm DC adapters)

### **100W Foldable Solar Panel Charger Details**

The humanized design can let the 100w foldable solar panel charger be more convenient for outdoor use. It is 3 folds, folded to be 530x360mm for easy storage. An external large bag can store both the 100w foldable solar panel charger and the accessories. Also the bag can be used as the adjustable kickstands, to support this 100w foldable solar panel charger to fit better angle with sunlight, getting 25%-30% more sunlight than lying flat.

The 100w foldable solar panel charger itself is 18V out, with an external controller to realize USB 5V charging. The DC 18V port can charge laptops, 12v batteries, portable power station, etc. (including 1 set of battery clamps and 10 DC connectors for general brands of laptops; the DC 5.5x2.1mm / 8mm / 5.5x2.5mm / 3.5x1.35mm connectors can be also used for most of portable generators.) The USB output interface can charge smartphones, tablets, power banks, and other 5V USB-Powered devices. Different with other solar panels, which let the controller be installed in the pocket part, you can use this 100w foldable solar panel charger more conveniently. When plug or pull down the charged loads, you move the external controller will be ok, no needing to move the solar panel. Or one day if the controller is broken, you just need to change a new controller, no needing to change a new solar panel. Because if the controller is installed on, you can not change the controller by yourself.

The special craft can let the 100w foldable solar panel charger be with higher durability and higher grade appearance. Not only with the better quality ETFE layer, the cloth cover is 1200D waterproof polyester canvas (the general folding solar panels are just used 600D canvas) to improve its outdoor durability, ideal for any outdoor activities such as camping, hiking, picnic, boating. The cloth is laminated together with the solar panel, not like others to be just sewed in. Benefitted with this lamination, the 100w foldable solar panel charger is with much better quality than other general ones.

