



LINKSOLAR

Solar Fan Hat

Model:F2

Please read this manual carefully
before using the product.



I. Product Overview

High-Efficiency Solar Cell:

Equipped with high-efficiency solar cell, it delivers higher conversion efficiency and excellent low-light response.

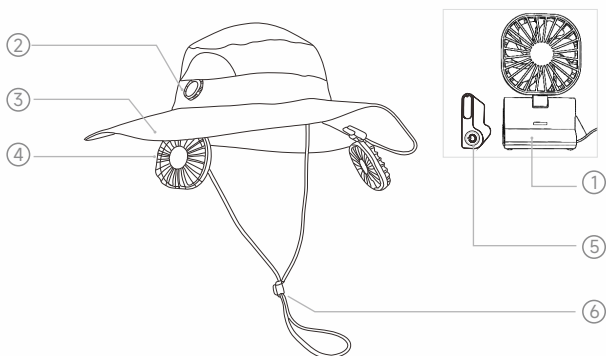
Additionally, F2 features a sleek appearance, high system safety, and superior weather resistance.

Solar cell parameters:

Photovoltaic panel size: D458.5 * (1.8 ± 0.3) mm

Photovoltaic panel power: 7.2V/12W

II. Product Diagram



① Power Button

② Speed Adjustment

③ Solar Panel

④ Fan

⑤ Fan Control Box

⑥ Adjustable Strap

III. Charging Instruction

Solar Panel Charging:

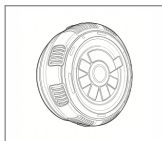
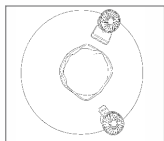
An integrated solar panel powers the built-in fan; it continuously recharges the fan under sunlight and cuts down charging frequency.

USB-C Output:

Rated output: 5V/2A. Actual output depends on sunlight and load.

The USB-C port powers compatible external devices. It is not an input for charging the hat.

Fan Functions:



IV. Indicator Lights

Green light stays on: the solar panel is working.

Battery status when powered on:

- Blue light stays on: battery level above 80%.
- Blue light flashes three times, then turns off; 1.5-second interval: battery level 20%-80%.
- Blue light flashes three times, then turns off; 0.5-second interval: battery level below 20%.

These indicators are a guide to battery status, not a fault diagnosis.

V. Core Parameters

Model: F2

Product Type: Photovoltaic Charger + Sun Hat + Fan

Product Name: Solar Fan Hat

Output specification: 5V/2A (MAX)

Output Charging Protocols: Compatible with 5V/2A protocols including UFP, Samsung 2A, DCP-1.5A

Product Materials:

Fabric: Polyester

Junction Box: ABS Plastic

Color: Black

VI. Button Operation

Button	
Speed cycle:	Off → Gear 1 → Gear 2 → Gear 3 → Off
Power on:	No gear memory function, starts at Gear 1 by default each boot
Sleep Mode	
Enter sleep mode:	Hold the button for 3 seconds, or auto enter via undervoltage protection
Wake up from sleep:	Wake by short pressing power button or solar charging. If woken only by charging, the fan will not run automatically.
Sleep current:	<50μA @ 3.7V

Button Functions		
Fan Gear	Type-C Voltage	Type-C Current
Gear 1	5V ± 0.3V	0.69 ± 0.05A
Gear 2	5V ± 0.3V	0.55 ± 0.05A
Gear 3	5V ± 0.3V	0.4 ± 0.05A

VII. Troubleshooting

Working temperature	-10°C + 50°C
Storage temperature	-20°C + 60°C
Special Requirements:	No acidic, alkaline or other chemically corrosive gases shall exist in storage and working environments.

VIII. Safety Precautions

1. Daily Maintenance

- Protection Functions: This product is equipped with complete OLP (Overload Protection), OVP (Overvoltage Protection) and OSP (Short-circuit Protection).
- Applicable Regions: This product is designed to meet the operating environment requirements of temperate and tropical zones.
- Altitude Rating: This product is designed for an altitude of 2000 meters to ensure user safety.

- Short-circuit Recovery: Unique automatic short-circuit recovery function; it can automatically resume normal operation after the short-circuit load is removed.
- Protection Functions: The product is equipped with complete OLP (Overload Protection) and OSP (Short-circuit Protection).
- USB-C output: up to 5V/2A. Solar panel rating: 12W (± 1 W). Actual output varies with sunlight and operating load.
- Plug & Play: Charge anytime conveniently with a connecting cable.
- Multi-function Device: Compatible with charging mobile phones, earbud cases and other electronic devices.
- Automatic Switching: Output is determined by the load. Compatible protocols: UFP, Samsung 2A, DCP-1.5A

2. Precautions for Solar Charging

Ensure the solar panel is unobstructed during charging. Even partial shading may significantly reduce charging efficiency.

IX. Safety and Maintenance

1. Safety Certification

- FCC&RoHS certified. Built-in overcharge, over-discharge, and short-circuit protection functions.

2. Warranty Period

- Component Warranty Period: 1 year. Within the warranty period, if quality problems occur with the product itself, we will provide corresponding repair and replacement services.

3. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions

- (1) This device may not cause harmful interference;
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

X. Packing List



Solar Fan Hat *1



Certificate of Conformity *1



User Manual *1



This device complies with EU Directives 2012/19/EU and 2006/66/EU. It must not be disposed of with ordinary household waste and must be recycled. This symbol indicates that this product cannot be treated as household waste and should be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Safety Instructions:

1. Do not use in extremely high temperatures, humid, or flammable environments;
2. Avoid scratching the solar panel with sharp objects;
3. Do not cover the panel while charging;
4. Children must use under adult supervision.

Sicherheitshinweise:

1. Nicht in extremen Temperaturen, feuchten oder leicht entzündlichen Umgebungen verwenden;
2. Vermeiden Sie, dass scharfe Gegenstände das Solarpanel zerkratzen;
3. Decken Sie das Panel während des Ladevorgangs nicht ab;
4. Kinder nur unter Aufsicht von Erwachsenen verwenden.

Consignes de sécurité:

1. N'utilisez pas le produit dans des environnements à température extrêmement élevée, humides ou inflammables;
2. Évitez tout contact avec des objets pointus afin de prévenir les rayures sur le panneau solaire;
3. Ne couvrez pas le panneau pendant la charge;
4. Les enfants doivent utiliser ce produit sous la surveillance d'un adulte.

Note sulla Sicurezza:

1. Non utilizzare in ambienti estremamente caldi, umidi o infiammabili.
2. Evitare di graffiare il pannello solare con oggetti appuntiti.
3. Non coprire il pannello durante la ricarica.
4. Utilizzare sotto la supervisione di un adulto se usato da bambini.

Precauciones de seguridad:

1. Prohibido usar en ambientes de temperatura extrema, humedad elevada o con materiales inflamables.
2. Evite que objetos punzantes rayen el panel solar.
3. No cubra el panel durante la carga.
4. Los niños no deben utilizarlo sin la supervisión de un adulto.

Veiligheidsinstructies:

1. Gebruik niet in omgevingen met extreem hoge temperaturen, een hoge luchtvochtigheid of brandbare materialen;
2. Voorkom krassen op het zonnepaneel met scherpe voorwerpen;
3. Dek het zonnepaneel niet af tijdens het opladen;
4. Kinderen mogen het apparaat alleen gebruiken onder toezicht van een volwassene.

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ENVIRONMENTAL TIP!

Please recycle discarded products according to local regulations;
Do not discard indiscriminately;
Product materials meet environmental standards.

