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› X-DRAGON Foldable Solar Charger 20W - Instruction Manual

X-DRAGON XD-SP5V20W

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Model: XD-SP5V20W

Brand: X-DRAGON

1. INTRODUCTION

Thank you for choosing the X-DRAGON 20W Foldable Solar Charger. This portable solar panel is designed to provide reliable power for your 5V devices, such as smartphones, tablets, and other USB-powered electronics, using solar energy. Its compact, foldable design and durable, waterproof construction make it ideal for outdoor activities and emergency situations.

The charger incorporates exclusive SolarIQ Technology, which intelligently adjusts current and voltage to achieve maximum power output, ensuring the fastest possible charging for your devices under direct sunlight. With high-efficiency SunPower solar cells, it offers superior energy conversion compared to many standard panels.

2. PACKAGE CONTENTS

Please verify that all items are included in your package:

- 1 x 20W Foldable Solar Charger
- 4 x Hooks (Carabiners)
- 1 x Micro USB Cable
- 1 x Instruction Manual

3. SETUP

To ensure optimal performance, follow these steps for setting up your X-DRAGON Foldable Solar Charger:

1. **Unfold the Solar Panel:** Carefully unfold the solar charger completely to expose all solar panels.

Ensure the panels are flat and facing the sun.

2. **Position for Optimal Sunlight:** Place the unfolded solar panel in direct sunlight. For best results, position the panels perpendicular to the sun's rays. The integrated kickstand system allows for easy angling to maximize sun exposure.
3. **Secure the Panel:** Use the provided hooks (carabiners) to secure the solar panel to a backpack, tent, or other stable surface, especially in windy conditions.

Industry-Leading Solar Panel



Special Surface: Class A high temperature resistant anticorrosive fabric offers waterproof and dust-proof ability for any outdoor activity

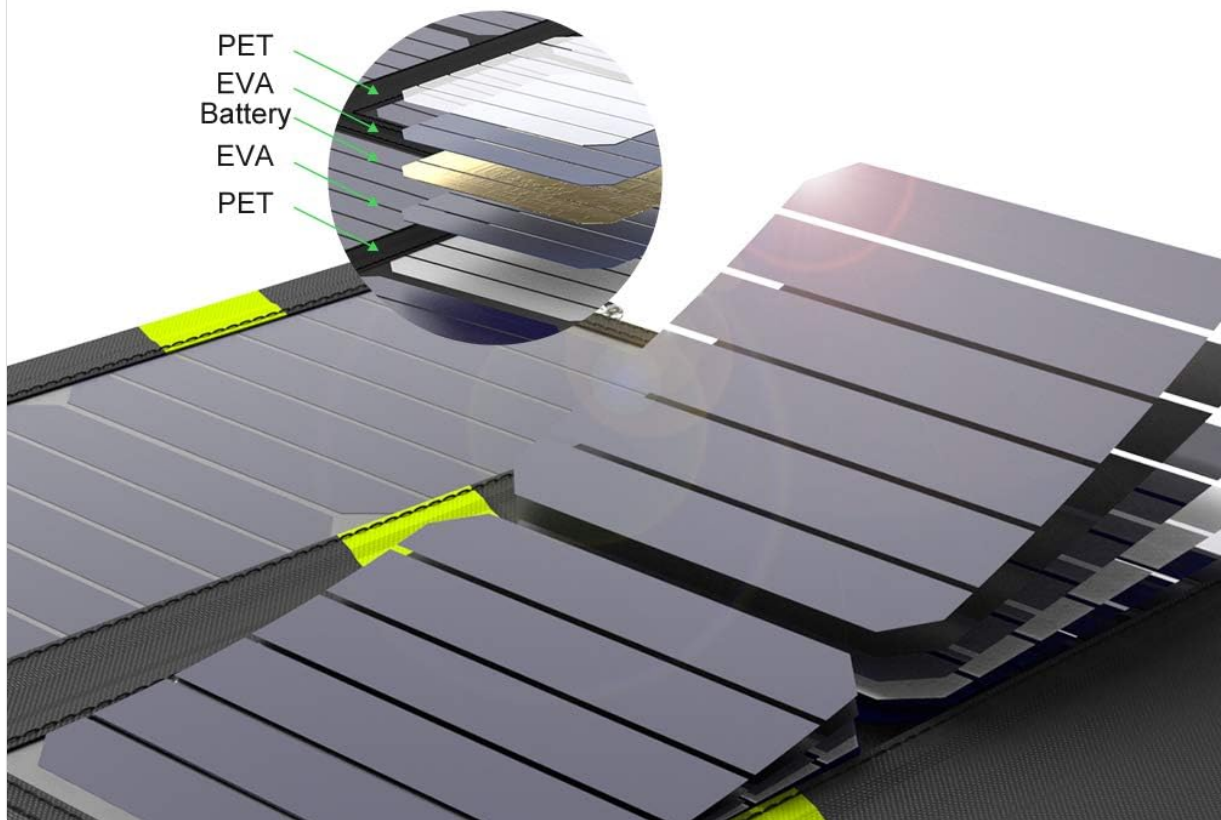


Image: The X-DRAGON 20W Foldable Solar Charger fully unfolded, displaying its solar panels ready for use. This image illustrates the product's compact and portable design when deployed.

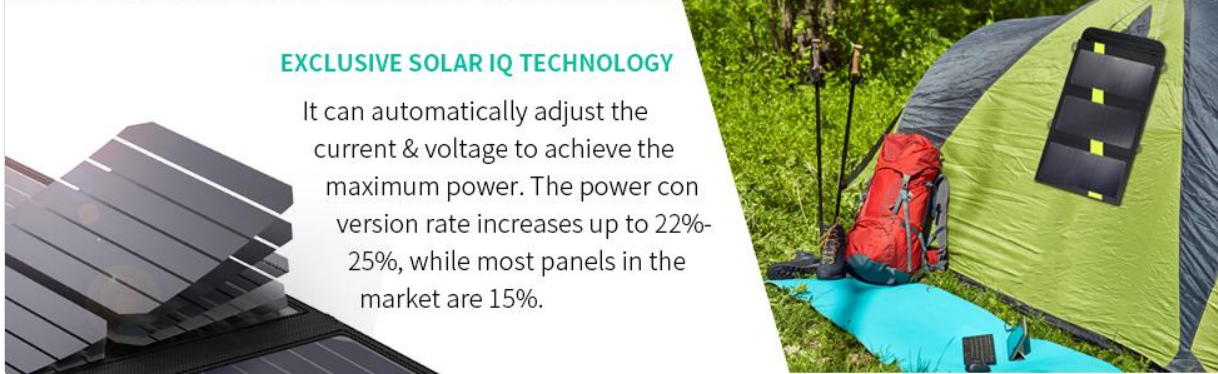


Image: A visual comparison of the X-DRAGON 20W Solar Charger's structure against a generic 20W solar charger, emphasizing its design for reduced circuit resistance and enhanced solar power capture.

4. OPERATING INSTRUCTIONS

The X-DRAGON 20W Foldable Solar Charger is designed for simple and efficient charging:

- 1. Connect Your Device:** Locate the dual USB output ports on the control unit. Connect your device's charging cable (e.g., micro USB cable provided, or your device's own USB cable) to one of the USB ports.
- 2. Initiate Charging:** Once connected and exposed to sufficient sunlight, the charger will automatically begin charging your device. The built-in SolarIQ Technology will detect your device's power requirements and deliver the fastest possible charge up to 2 amps per port or 3 amps overall.
- 3. Monitor Charging:** While the charger does not have a visible indicator for charging status, your connected device should display its charging progress.
- 4. Optimal Charging Conditions:** For best charging speeds, ensure the solar panels are in direct, unobstructed sunlight. Partial shade or cloudy conditions will reduce charging efficiency.

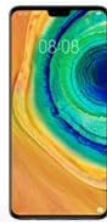
20W-Charging Faster, Save Time

Similar time saving for other devices



iPhone 11

Save up to
1 hours



Huawei mate30

Save up to
1.5 hours



iPad Pro

Save up to
2.5 hours



Image: The X-DRAGON 20W solar charger is shown actively charging multiple devices, including an iPhone, Huawei phone, and iPad, demonstrating its dual-USB capability and efficiency.

5. FEATURES

- **Exclusive SolarIQ Technology:** Automatically adjusts current and voltage to achieve maximum power, delivering up to 2 amps per port or 3 amps overall under direct sunlight.
- **High Efficiency:** Features SunPower solar cells with up to 22%-25% efficiency, surpassing most panels on the market.
- **Dual-USB Power:** 20 watts of power to charge two 5V devices simultaneously.
- **Water-Resistant and Safety Protection:** PET solar panels with rugged high-wear Oxford fabric provide weather-resistant durability. Includes surge protection, short circuit protection, and other advanced safety features.
- **Ultra Portable Lightweight Design:** Compact and easy to carry, perfect for outdoor activities.



<p>High Efficiency SunPower Solar Cell: 22%-25% Most monocrystalline cell :17%-19%</p> 	<p>Safe Protection</p>  <p>Short circuit protection Over voltage protection Over current protection</p>	 <p>16:43 100% 09:00</p> 	<p>Durable Water & Dirt Resistant Waterproof Nylon</p> 
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Image: An infographic highlighting the X-DRAGON solar charger's key features: high efficiency, compact size, comprehensive safety protections, and durable water and dirt-resistant construction.

USB Port Inside Protection, Waterproof Dustproof Dropproof



Waterproof



Dust-proof



Dropproof



Image: A visual comparison demonstrating the superior protection of the X-DRAGON's internal USB port against external, exposed ports on other chargers, highlighting its waterproof, dustproof, and dropproof design.

6. MAINTENANCE

To prolong the life and efficiency of your solar charger:

- **Cleaning:** Wipe the solar panels with a soft, damp cloth to remove dust or dirt. Avoid abrasive cleaners or harsh chemicals.
- **Storage:** When not in use, fold the charger and store it in a cool, dry place away from direct sunlight.
- **Handling:** Avoid dropping or subjecting the panel to excessive force, as this can damage the solar cells.

7. TROUBLESHOOTING

If you encounter issues with your X-DRAGON Solar Charger, consider the following:

- **No Charging:** Ensure the solar panels are in direct, strong sunlight. Check that your device is properly connected to the USB port.

- **Slow Charging:** Charging speed is highly dependent on sunlight intensity. Move the panel to a location with more direct sun, adjust its angle, or wait for clearer weather. Ensure no shadows are cast on the panels.
- **Device Compatibility:** Confirm your device is a 5V USB-chargeable device.

8. SPECIFICATIONS

Specification	Value
Wattage	20 watts
Efficiency	22%-25% (SunPower cells)
Output Ports	2 x USB Type A
Amperage	2.4 Amps (max per port), 3 Amps (overall max)
Input Voltage	5 Volts
Product Dimensions	59.18 x 30.73 x 0.3 cm (unfolded)
Item Weight	730 g
Material	Polyvinyl Chloride, IBC High Efficiency Solar Panel, Oxford Fabric
Special Features	Lightweight Design, Waterproof
Certifications	CE, FCC, RoHS

9. WARRANTY AND SUPPORT

The X-DRAGON Foldable Solar Charger comes with an **18 Months Warranty**. For any product inquiries, technical support, or warranty claims, please contact X-DRAGON customer service through the retailer where you purchased the product.
