

# FOLDABLE SOLAR PANEL CHARGER

TBSP 90WS  
USER MANUAL

EN



# TELECO

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- The intensity of sunlight must be high and the solar panel should be as perpendicular to the light as possible.
- When absorbing sunlight to charge, the solar panel surface must not be shadowed.

## Feature

- Environment-friendly, practical and convenient for outdoor emergency power supply.
- Foldable design with portable size, easy to carry with just single hand.
- High quality solar mono-crystalline silicon provides high charging efficiency and long service life.
- The product is compatible with power station. You can convert and store solar power in power station in the day and charge devices at night. The power station is designed with multiple ports for AC, DC, USB and car charger to meet your demand of outdoor power supply. (Note: The energy power station should be purchased separately.)

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## Perface

Thanks for purchasing our Solar Panel, please read this user manual carefully before using. This solar panel charger compatible with cell phone, IPAD, digital camera, PSD, GPS, power bank, power station and so on. It is suitable for any occasion where you can expose it to sun. It is highly efficient in charging, easy to use, safe, environment-friendly, and energy-efficient.

## Package Contents

- 1\* Solar Panel
- 1\* User manual
- Different DC cables

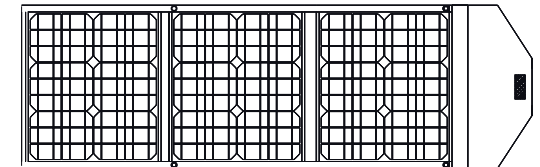
## Attention

- Please do not hit, throw, prick the product, squeezing or bending the product and protect it from falling down to avoid irreversible damage.
- Please keep it away from humidity to ensure its long service life.
- The actual power of solar panel charger is affected by solar illumination, exposure angle and ambient temperature so the difference between the nominal power and the actual power of solar panel charging is a normal phenomenon.

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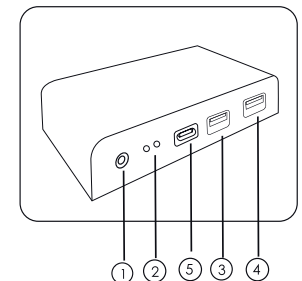
## Product Diagram

3 folds



## Output Box

- DC 18 V output
- Indicator Light
- USB Output
- USB QC Output
- Type C Output



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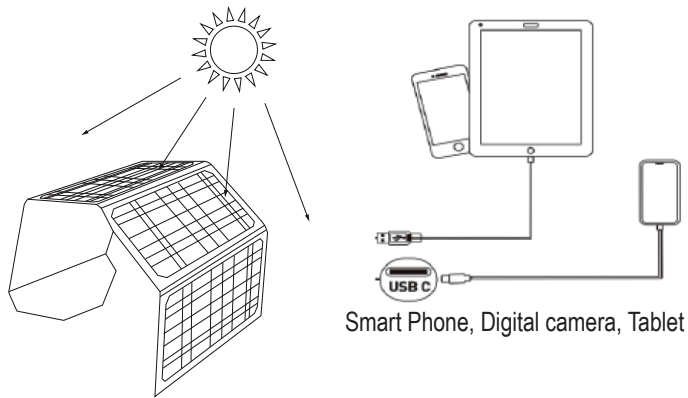
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## How to use

1. Unfold the solar panel, expose it to sunlight, and connect the devices that need to be charged.
2. Indicator: Red light indicates the charger is receiving solar energy properly.



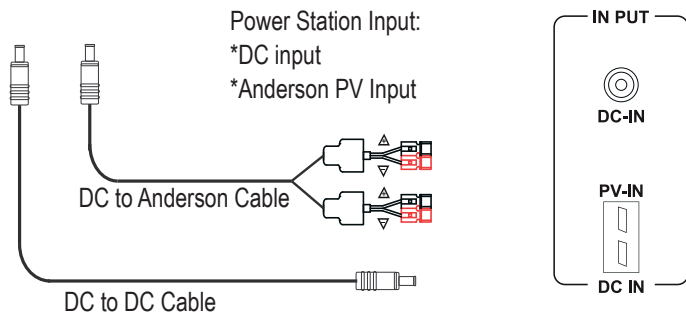
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## Compatibility

Compatible with most solar generators, with our included different size of connectors.

Multi-specification DC Adapter For Power Station: with the included different size of connectors (8 mm/5.5'2.5 mm), compatible with most solar generators on the market. (Note: The energy power station should be purchased Separately.)

### How to Charge a Power Station:



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## Tips

1. When you charge a power station, for better charging efficiency, please do not charge with DC port and USB ports simultaneously.
2. The junction box is not waterproof and please keep it dry.
3. Please keep your device cool while charging.

## Warranty

Thanks for purchasing our solar panel charger  
If you have any questions about it, please feel free to contact us.  
Please note, we can only provide after sales service for products purchased directly from us. If you have purchased from another seller, please contact them directly for service or warranty issues.

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## FAQ

### Are solar panels waterproof?

Solar Panels are IP67 rated, which means they can be submerged in a body of water up to a meter deep for 30 mins. They are also dustproof, durable, and suitable for outdoor usage. If you wish to clean your solar panel, use a gentle stream of water and do not use high-pressure water sources such as a jet spray, as high pressure may damage the solar panels.

### Does the charging speed of solar panels vary?

Solar panel charging speeds vary with different operating and environmental conditions:

*Weather:* Solar panels may have lower outputs in cold, cloudy, and rainy conditions.

*Positioning:* Solar panels may have lower outputs when they are not directly facing the position of the sun.

*Obstructions:* Solar panels may have lower outputs when placed under shade, behind other objects, or behind a window.

*Warning:* Avoid applying external pressure to the solar panels; doing so can damage the solar panel cells and result in reduced outputs.

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### Can solar panels be used in extreme weather conditions?

Please use the solar panels in stable weather conditions. The optimal temperature range for normal use and storage of solar panels is -4 °F to 185 °F (-20 °C to 85 °C).

*Warning:* DO NOT use solar panels during severe weather conditions, such as thunderstorms, strong winds, and hailstorms.

### Can solar panels store power themselves?

Solar panels convert solar energy into electricity and pass it as a DC current to a power station, as opposed to storing power themselves.

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## Specifications

<b>90 W Solar Panel</b>
Rated Power: 90 W (+/- 5 W)*
Open Circuit Voltage: 21 V (Vmp 18 V)
Short Circuit Current: 5.53 A (Imp 5.0 A)
Efficiency: 21 % - 22 %
Cell Type: Monocrystalline silicon
Output: DC 18 V / 5.0 A, Type C Output QC 3.0 Output, USB Output
Operating & Storage Temperature: -20 °C to 85 °C
<b>General</b>
Net Weight: 3.7 kg
Gross Weight: 4.1 kg
Unfolded Dimensions: 128 x 52 x 0.4 cm
Folded Dimensions: 52 x 37 x 4.5 cm
<b>Tested And Certified</b>
FC CE Recycle RoHS IP67

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