

ENGLISH

ZMARTGEAR

Foldable Solar Panel

21W
High efficiency
Weather-Resistant



Foldable &
Portable



IP67
Waterproof



Monocrystalline
Silicon



High Conversion
Rate



High Power
Efficiency



Integrated
Lamination Tech

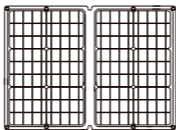
User Manual

ZMG114

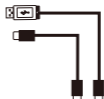
Thank you for purchasing our ZmartGear Foldable Solar Panel. Before using your new solar panels, please read this manual carefully.

ZMG114- (21W Max.)

Charge Mobile Electronic Devices



Solar Panel



The package includes:

- Foldable Solar Panel x1
- Snap Hook x 1
- User Manual x 1

Specifications

- . **Model No.:** ZMG114
- . **Power Rating:** 21W (Maximum)
- . **Output Voltage:** 6.6V
- . **Maximum Output Current:** 3.18A
- . **Open-Circuit Voltage:** 7.6V
- . **Short-Circuit Current:** 3.5A
- . **USB-C & USB-A Output:** 15W (Maximum) | 5V/3A
- . **Weight:** 0.46 kg
- . **Folded Dimensions:** 231 x 215 x 30 mm
- . **Unfolded Dimensions:** 691 x 215 x 17 mm
- . **Operating Temperature Range:** -10°C to 65°C

ENGLISH

ZMARTGEAR

Foldable Solar Panel

40W
High efficiency
Weather-Resistant



Foldable &
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IP67
Waterproof



Monocrystalline
Silicon



High Conversion
Rate



High Power
Efficiency



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Lamination Tech

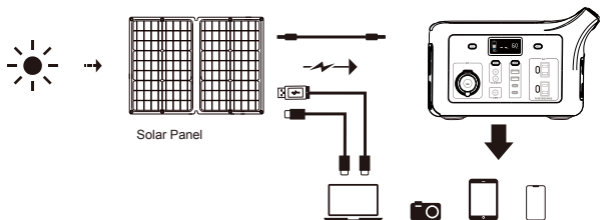
ZMG110

User Manual

Thank you for purchasing our ZmartGear Foldable Solar Panel. Before using your new solar panels, please read this manual carefully.

ZMG110/ZMG111/ZMG112

Charge Mobile Electronic Devices



The package includes:

- Foldable Solar Panel x1
- Snap Hook x 1
- Charging Cable x 1
- User Manual x 1

Specifications

- **Model No.:** ZMG110
- **Power Rating:** 40W (Maximum)
- **DC Output Voltage:** 19.44V
- **DC Maximum Output Current:** 2.1A
- **Open-Circuit Voltage:** 23.6V
- **Short-Circuit Current:** 2.45A
- **USB-A Output:** 24W (Maximum) | 5V/3.4A, 9V/2.5A, 12V/2A
- **USB-C Output:** PD 18W (Maximum) | 5V/3A, 9V/2A, 12V/1.5A
- **Weight:** 0.9 kg
- **Folded Dimensions:** 330 x 260 x 30 mm
- **Unfolded Dimensions:** 920 x 330 x 17 mm
- **Operating Temperature Range:** -10°C to 65°C

ZMARTGEAR

Foldable
Solar Panel



Foldable &
Portable



IP67
Waterproof



Monocrystalline
Silicon



High Conversion
Rate



High Power
Efficiency



Integrated
Lamination Tech

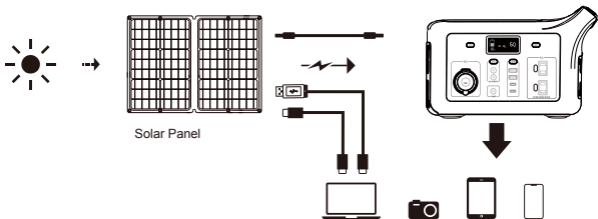
ZMG111

User Manual

Thank you for purchasing our ZmartGear Foldable Solar Panel. Before using your new solar panels, please read this manual carefully.

ZMG110/ZMG111/ZMG112

Charge Mobile Electronic Devices



The package includes:

- Foldable Solar Panel x1
- Snap Hook x 1
- Charging Cable x 1
- User Manual x 1

Specifications

- . **Model No.:** ZMG111
- . **Power Rating:** 60W (Maximum)
- . **DC Output Voltage:** 19.44V
- . **DC Maximum Output Current:** 3.1A
- . **Open-Circuit Voltage:** 23.6V
- . **Short-Circuit Current:** 3.5A
- . **USB-A Output:** 24W (Maximum) | 5V/3.4A, 9V/2.5A, 12V/2A
- . **USB-C Output:** PD 18W (Maximum) | 5V/3A, 9V/2A, 12V/1.5A
- . **Weight:** 1.28 kg
- . **Folded Dimensions:** 400 x 268 x 30 mm
- . **Unfolded Dimensions:** 1078 x 400 x 17 mm
- . **Operating Temperature Range:** -10°C to 65°C

ZMARTGEAR

Foldable Solar Panel

100W
High efficiency
Weather-Resistant



Foldable & Portable



IP67 Waterproof



Monocrystalline Silicon



High Conversion Rate



High Power Efficiency



Integrated Lamination Tech

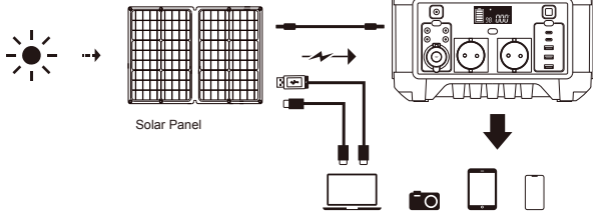
ZMG112

User Manual

Thank you for purchasing our ZmartGear Foldable Solar Panel. Before using your new solar panels, please read this manual carefully.

ZMG110/ZMG111/ZMG112

Charge Mobile Electronic Devices



The package includes:

- Foldable Solar Panel x1
- Snap Hook x 1
- Charging Cable x 1
- User Manual x 1

Specifications

- **Model No.:** ZMG112
- **Power Rating:** 100W (Maximum)
- **DC Output Voltage:** 19.44V
- **DC Maximum Output Current:** 5.15A
- **Open-Circuit Voltage:** 23.6V
- **Short-Circuit Current:** 5.8A
- **USB-A Output:** 24W (Maximum) | 5V/3.4A, 9V/2.5A, 12V/2A
- **USB-C Output:** PD 18W (Maximum) | 5V/3A, 9V/2A, 12V/1.5A
- **Weight:** 2.5 kg
- **Folded Dimensions:** 400 x 390 x 30 mm
- **Unfolded Dimensions:** 1560 x 400 x 17 mm
- **Operating Temperature Range:** -10°C to 65°C

Charging Cautions:

- **Use the Right Cable:** Ensure you're using the qualified cable for charging.
- **Match Device Requirements:** Before connecting your device, check its recommended input voltage and current.
- **Voltage Limit:** The solar panel's open-circuit voltage (maximum voltage when Not connected to a load) should not exceed the device's maximum input voltage.



Please read the user manual carefully before use.

- **Handle with Care:** Avoid bending, dropping, or stepping on the solar panel.
- **Keep it Dry:** Don't immerse the panel in water or clean it with a forceful water stream. Use a damp cloth for cleaning.
- **Avoid Extremes:** Keep the panel away from fire, high heat, and direct sunlight during storage or charging.
- **Protect the Surface:** Don't scratch the panel with sharp objects or apply corrosive substances.
- **Electrical Safety:** Don't attempt to disassemble the panel or directly charge an automotive battery with it.
- **Keep Away from Children and Pets:** This product is not intended for use by children or pets.
- **Heat Management:** While recharging, keep the solar panel, portable power station, and other electronics away from heat sources and direct sunlight to maximize their lifespan.

Disposal of electronic waste

Electrical and electronic equipment (EEE) contains materials, components and substances that can be hazardous and harmful to human health and the environment when electrical waste and electronic equipment (WEEE) is not disposed of properly. Products marked with the crossed-out bin below are electrical and electronic equipment. The crossed bin symbolizes that waste is electrical and electronic equipment must not be disposed of with unsorted household waste, but must be collected separately.

All municipalities have set up collection schemes where waste electrical and electronic equipment can be delivered free of charge by citizens to recycling stations or other collection points or collected directly from households. Further information must be obtained from the municipality's technical administration.

Users of electrical and electronic equipment shall not dispose of waste electrical and electronic equipment with household waste. Users shall use municipal collection schemes to reduce the environmental impact of the disposal of waste electrical and electronic equipment and to increase the possibilities for reuse, recycling and recovery of waste electrical and electronic equipment.



*** NOTE**

For optimal lifespan, we recommend keeping it out of direct rain or prolonged exposure to moisture

What Affects Solar Panel Efficiency?

- **Weather Conditions:** Cloudy skies, rain, and snow can significantly reduce sunlight reaching the panel, impacting its ability to generate electricity.
- **Ambient Temperature:** Solar panels operate best in moderate temperatures. Extreme heat can decrease efficiency.
- **Cable Length and Quality:** Using longer or lower-quality cables can cause slight energy loss during transmission from the panel to the power station. The impact is generally minimal for typical cable lengths used with portable setups.
- **Sun Angle:** Ideally, sunlight should hit the panel directly throughout the day. Tilting the panel towards the sun optimizes energy production.



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