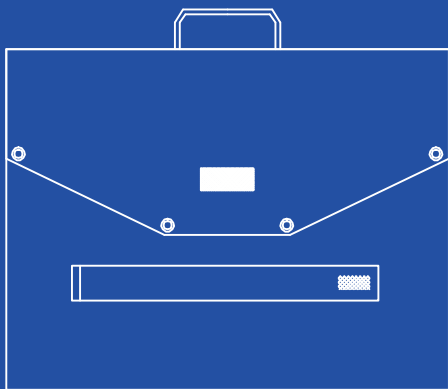


HALO<sup>®</sup>  
PORTABLE  
SOLAR PANEL



OPERATING INSTRUCTIONS  
PLEASE READ BEFORE OPERATING THIS EQUIPMENT

## SAFETY PRECAUTIONS

**DANGER-CAUTION Read and understand all safety information before using this product. Failure to follow these instructions may result in electrical shock, explosion, fire which may result in serious injuries, death or property damage.**

- When used correctly, the HALO PORTABLE SOLAR PANEL provide a safe and dependable source of portable power. However, if they are misused or abused, this may result in leakage, burns, fire or explosion, causing personal injury or damage to other devices.
- Misusing or incorrectly connecting your HALO PORTABLE SOLAR PANEL may cause electric shock to users and damage equipment.
- Do not operate in explosive atmospheres such as in the presence of flammable liquids, gases or dust.
- Remove jump start clamps from vehicle battery after jump starting vehicle.
- Keep your HALO PORTABLE SOLAR PANEL dry and away from moisture and corrosive materials. The HALO PORTABLE SOLAR PANEL should not be used near water or wet areas such as bathtubs, showers, bathrooms, sinks, swimming pools or basements.
- Do not expose your HALO PORTABLE SOLAR PANEL to moisture, water, rain, or snow.
- Keep your HALO BPORTABLE SOLAR PANEL away from heat sources, including open flames, radiators, stoves, ovens, and any other devices that product heat.
- The lithium-ion rechargeable battery used in this charging device may present a risk of fire or chemical burn if

- mistreated. Do not expose to fire or excessive temperature.
- Do not expose to heat above 212°F (100°C) or incinerate.
  - In the unlikely event of leakage or explosion use sand or a chemical fire extinguisher.
  - Your HALO PORTABLE SOLAR PANEL may become warm under extended high power operation. Do not cover, wrap, or otherwise restrict the HALO PORTABLE SOLAR PANEL during operation.
  - Do not disassemble your HALO PORTABLE SOLAR PANEL. There are no user-serviceable parts inside. Incorrect reassembly may result in shock or fire hazard.
  - Do not drop or subject to strong impacts. Do not operate your HALO PORTABLE SOLAR PANEL if it has received a sharp blow, or has otherwise been damaged in any way.
  - Do not puncture, crush or subject to mechanical shock.
  - Only charge your HALO PORTABLE SOLAR PANEL by the specified method with the specified charging adapter provided with the unit.
  - Do not use any non-HALO-branded accessories with the HALO PORTABLE SOLAR PANEL. Doing so may cause electric shock to users and damage equipment.
  - The HALO PORTABLE SOLAR PANEL, along with its accessories, are not toys and should be kept away from children.
  - Make sure the jumper cables are fully plugged into the jump start output before trying to jumpstart your vehicle.
  - Do not touch red (positive) and black (negative) jumper clamps together at any point.
  - Do not insert any foreign object into the ports or openings of your HALO PORTABLE SOLAR PANEL.

- Do not clean your HALO PORTABLE SOLAR PANEL with harsh chemicals, soaps or detergents. Just wipe the case with a soft cloth.
- Make sure the HALO PORTABLE SOLAR PANEL's charging ports do not become contaminated with lint or other debris. Use a canned-air type of product periodically to ensure that the port openings are clear.
- When using the air compressor, always check and follow the manufacturer's recommended pressure. Use caution as the air hose and connectors may get hot after extended use.
- Batteries should be recycled or disposed of as per state and local guidelines.
- Storage: 4°F - 158°F (-15°C - 70°C), Discharge: 14°F - 140°F (-10°C - 60°C), Charge: 32°F - 113°F (0°C - 45°C)

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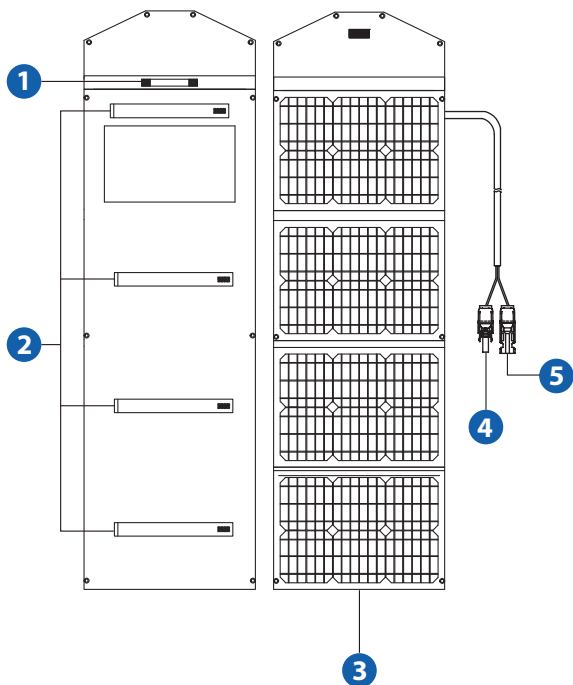
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## INCLUDED ITEMS

- HALO PORTABLE SOLAR PANEL 100W

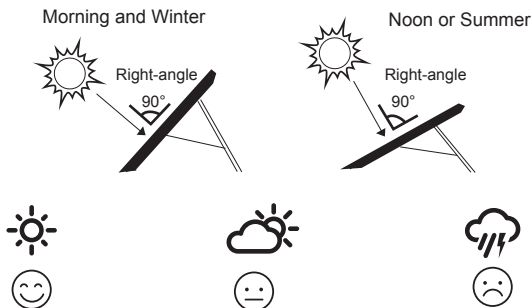


## LOCATION OF CONTROLS

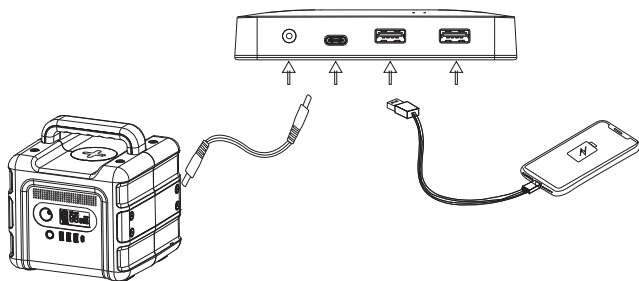
1. Carrying Handle
2. Velcros
3. Foldable Solar Panel
4. USB Cable
5. MC4 Output

# OPERATING INSTRUCTIONS

1. Unfold the solar panels and spread the bracket. For optimal solar radiation, please angle the solar surface and the sunlight at 90°.



2. Connect the USB cable to the output port to charge various notebooks, computers and power stations.



## NOTE:

Do not place electronic devices in direct sunlight or in an overheated environment. Electronic devices can be placed in the pocket of the HALO SOLAR PANEL.

## TROUBLESHOOTING

### 1. Why is the electronic device not charging?

- Check to see if the output connector is plugged in properly, or if the cable is faulty. Replug the cable or replace with a new one.
- Readjust the HALO Solar Panels to face the sunlight.
- Check to see if the surface of the HALO Solar Panels contaminated with dirt or debris and clean the surface of the panel with cloth. Avoid other obstruction blocking the solar panel.

### 2. Why are the electronic devices charging slowly?

- Check the environment or weather: There will be lower power generation in cloudy and rainy days.
- Replug the charging cable to confirm.
- Do not place electronic devices in direct sunlight or it can become overheated causing slow charging.

### 3. What is the difference between normal output of the solar panel and the actual output?

- The normal maximum output power (rated output) is calculated by STC (Standard Test Condition). This is the world's recognized standard testing condition for ground solar cell modules in a predetermined "standard state". The "standard state" has a surface temperature of 25 , air-mass of 1.5 and a solar intensity of 1000W/m<sup>2</sup>.



## SPECIFICATIONS

Model:	HALO PORTABLE SOLAR PANEL		
Peak Power:	100W		
Cell Efficiency:	20%		
Power Voltage:	18V		
Power Current:	5.28 A		
Open Circuit Voltage:	22.5V		
Short Circuit Current:	5.81A		
USB Output 1:	==	==	5V ==2.4A
USB Output 2:	5V	3A; 9V	2A; 12V 4.5A
Type-C Output:	5V 3A		
DC Output:	12-18V		
MC4 Output:	12-18V		
Folded Dimensions:	19.9 x 14.6 x 1.4 inches		
Unfolded Dimensions:	66.8 x 19.9 x 0.2 inches		
Operating Temperature Range:	-20°C~65°C		

## SAFETY PRECAUTIONS

- Read all instructions before using the product.
- Do not get your HALO PORTABLE SOLAR PANEL wet or store in extreme temperature conditions.
- Do not disassemble or attempt to repair your HALO PORTABLE SOLAR PANEL yourself.
- Use a cloth to clean the exterior of your HALO PORTABLE SOLAR PANEL. Do not use liquid detergent or chemicals of any kind.
- When used correctly, lithium-ion rechargeable batteries provide a safe and dependable source of portable power. However, if they are misused or abused, this may result in leakage, burns, fire or explosion, causing personal injury or damage to other devices.
- Misusing or incorrectly connecting your HALO PORTABLE SOLAR PANEL may cause electric shock to users and damage equipment.
- Keep your HALO PORTABLE SOLAR PANEL dry and away from moisture and corrosive materials. The HALO PORTABLE SOLAR PANEL should not be used near water or wet areas such as bathtubs, showers, bathrooms, sinks, swimming pools or basements.
- Do not expose your HALO PORTABLE SOLAR PANEL to moisture, water, rain, or snow.
- Keep your HALO PORTABLE SOLAR PANEL away from heat sources, including open flames, radiators, stoves, ovens, and any other devices that produce heat.
- The lithium-ion rechargeable battery used in this charging device may present a risk of fire or chemical burn if mistreated. Do not expose to fire or excessive temperature.

- Do not expose to heat above 212°F (100°C) or incinerate.
- In the unlikely event of leakage or explosion use sand or a chemical fire extinguisher.
  - Your HALO PORTABLE SOLAR PANEL may become warm under extended high power operation. Do not cover, wrap, or otherwise restrict the HALO PORTABLE SOLAR PANEL during operation.
  - Do not disassemble your HALO PORTABLE SOLAR PANEL. There are no user-serviceable parts inside. Incorrect reassembly may result in shock or fire hazard.
  - Do not drop or subject to strong impacts. Do not operate your HALO PORTABLE SOLAR PANEL if it has received a sharp blow, or has otherwise been damaged in any way.
  - Do not puncture, crush or subject to mechanical shock.
  - Only charge your HALO PORTABLE SOLAR PANEL by the specified method with the specified charging adapter provided with the unit.
  - Do not use any non-HALO-branded accessories with the HALO PORTABLE SOLAR PANEL. Doing so may cause electric shock to users and damage equipment.
  - The HALO PORTABLE SOLAR PANEL, along with its accessories, are not toys and should be kept away from children.
  - Do not insert any foreign object into the ports or openings of your HALO PORTABLE SOLAR PANEL.
  - Do not clean your HALO PORTABLE SOLAR PANEL with harsh chemicals, soaps or detergents. Just wipe the case with a soft cloth.
  - Do not modify or attempt to repair the HALO PORTABLE SOLAR PANEL except as indicated in the instructions for use

and care.

- Make sure the HALO PORTABLE SOLAR PANEL's charging ports do not become contaminated with lint or other debris. Use a canned-air type of product periodically to ensure that the port openings are clear.
- Batteries should be recycled or disposed of as per state and local guidelines.
- The device shall be stored indoors and protected from the elements;
- The unit shall not be charged outdoors.
- When in use, steps should be taken to reduce the exposure to rain, sleet, snow, and the like.
- For appliance and battery storage, do not exceed 104°F (40°C)
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

SAVE THESE INSTRUCTIONS

## **FCC RADIATION EXPOSURE STATEMENT**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## COMPLIANCE WITH FCC REGULATION

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

CAUTION: To comply with the limits of the Class B digital

device, pursuant to Part 15 of the FCC Rules, this device must be used with certified peripherals and shielded cables. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may result in interference to radio or reception.

## LIMITED WARRANTY

HALO warrants its products to be free from defects in material and workmanship under normal use. Conditions are as follows:

- During the first 90 days from date of purchase, HALO will repair or replace the defective product.
- HALO will, subject to inspection, repair the defective product or replace it with a new or reconditioned unit. The return must be accompanied by a Return Merchandise Authorization (RMA) number to be issued upon request, and must be shipped prepaid.
- Where applicable, all requests for warranty returns must be accompanied by a proof of purchase.
- The warranty does not extend to the electronic equipment that is used, or incorporates with any of our products and accessories. HALO shall not be held responsible for the improper use of its products.
- In no event shall HALO be liable for any incidental, special, consequential or punitive damages arising out of the use of HALO's products.

For all questions or exchange requests, please call 888-907-6274, contact us at [zagg.com/support](http://zagg.com/support) or visit [www.zagg.com/warranty-policies](http://www.zagg.com/warranty-policies).

This Limited Warranty sets forth the full scope of HALO's

obligations and liabilities with respect to the product. All implied warranties, including without limitation the implied warranties of merchantability and fitness for a particular purpose, are limited to the duration of this Limited Warranty. In no event shall HALO be liable for any incidental, special, consequential or punitive damages or any damages or losses of or to electronic equipment or products that are used with any of HALO's products.



FOR TECHNICAL SUPPORT PLEASE  
CONTACT US AT:

**ZAGG.COM/SUPPORT**  
OR  
CALL US AT: **888-907-6274**

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