

# TG-113A

FCC ID: 2BHII-TG113A

## Mobile Solar Powered Trailer

- - - User Manual

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.

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

#### FCC Radiation Exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. Think you.

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# 1. Introduction

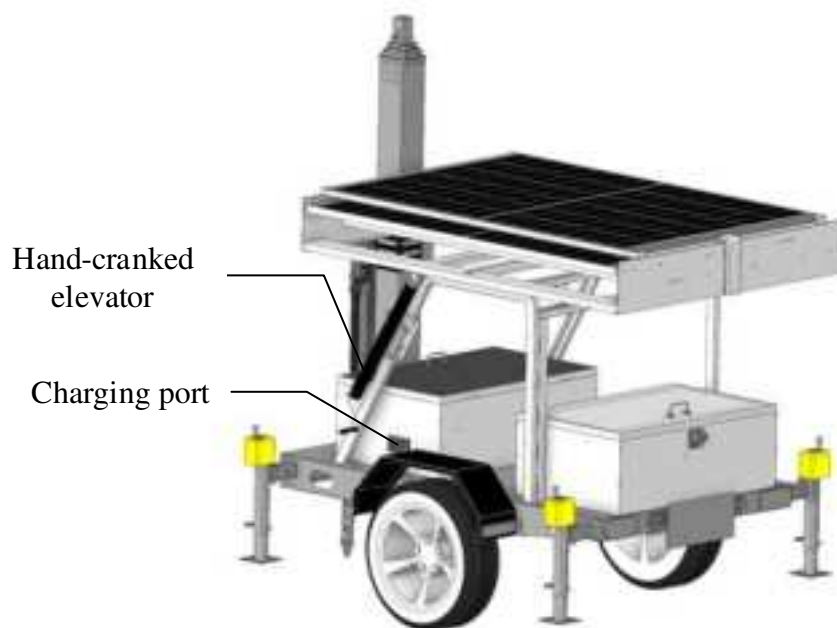
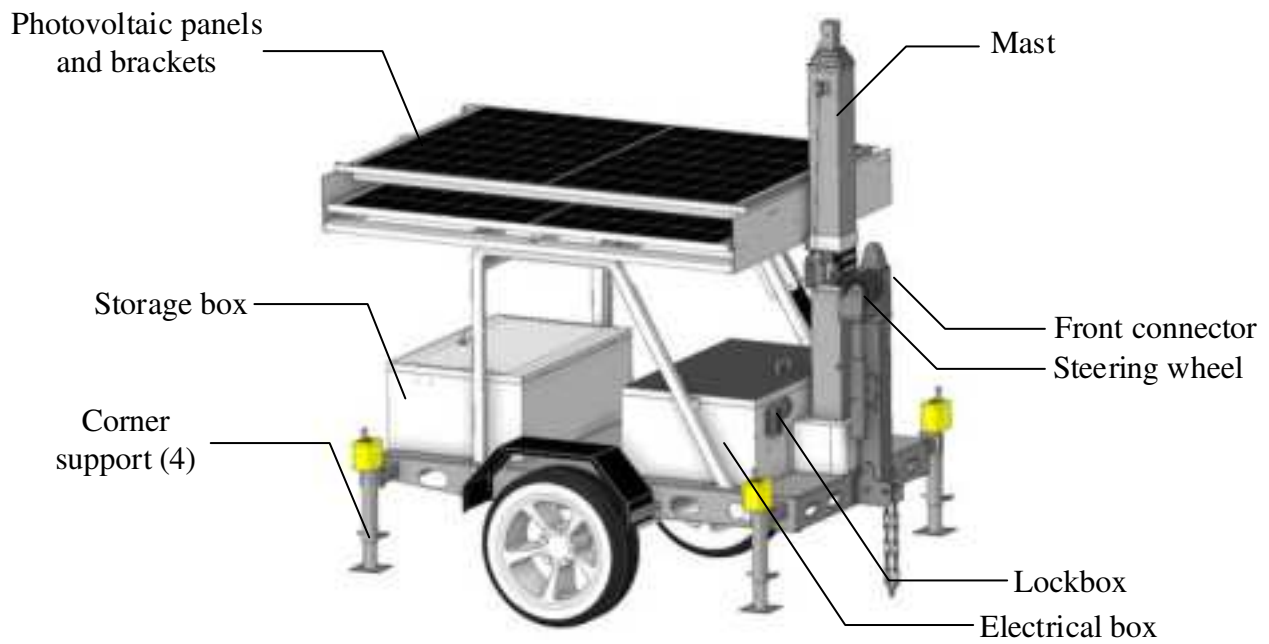


Fig. 1 Introduction diagram of the mobile solar powered trailer

## 2. Usage steps

### 2.1 Expansion of supporting feet

- 1) Loosen the securing bolt, gently pull each of the four corner supports outward to increase their force-bearing surface area, and then re-insert the bolt.
- 2) Remove the key from the lockbox, lift the yellow security cover off the four-corner support, and then take out the support's handle.
- 3) Turn the handle to rock the four corner supports, elevating the entire vehicle.

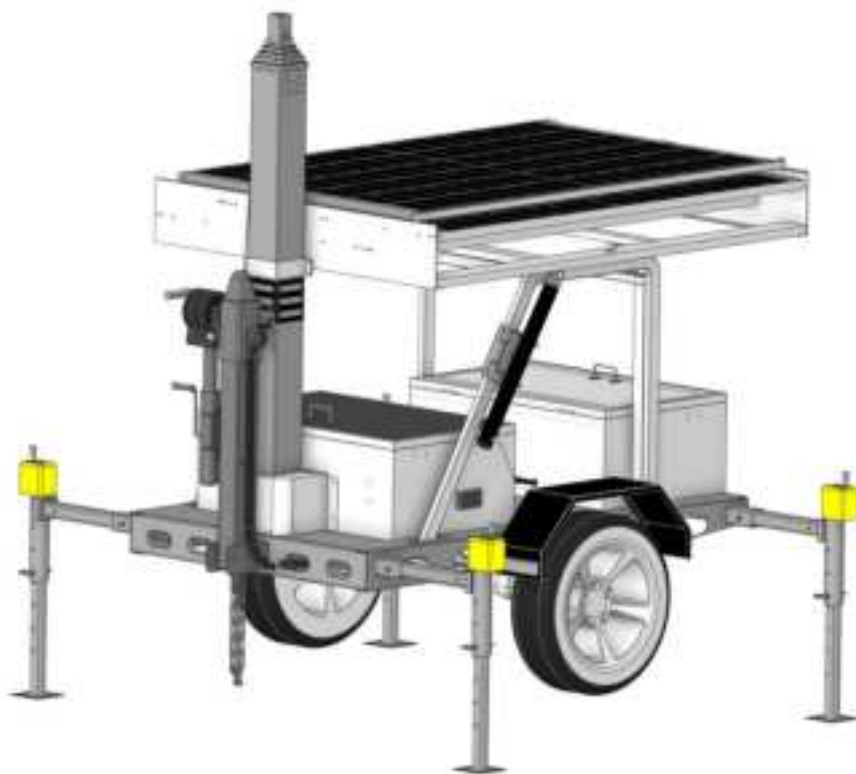


Fig. 2 The open state of the four corner support

## 2.2 Installation of Equipment Hangers

- 1) Remove the key from the lockbox and open the storage box.
- 2) Take out the equipment hangers and its accessories from the storage box.
- 3) Turn the hand-cranked elevator clockwise to adjust the photovoltaic panel from a horizontal to an inclined position within a range of 0~50°.
- 4) The operator stands on the electrical box and Follow the instructions in Fig. 3 to proceed with the installation.

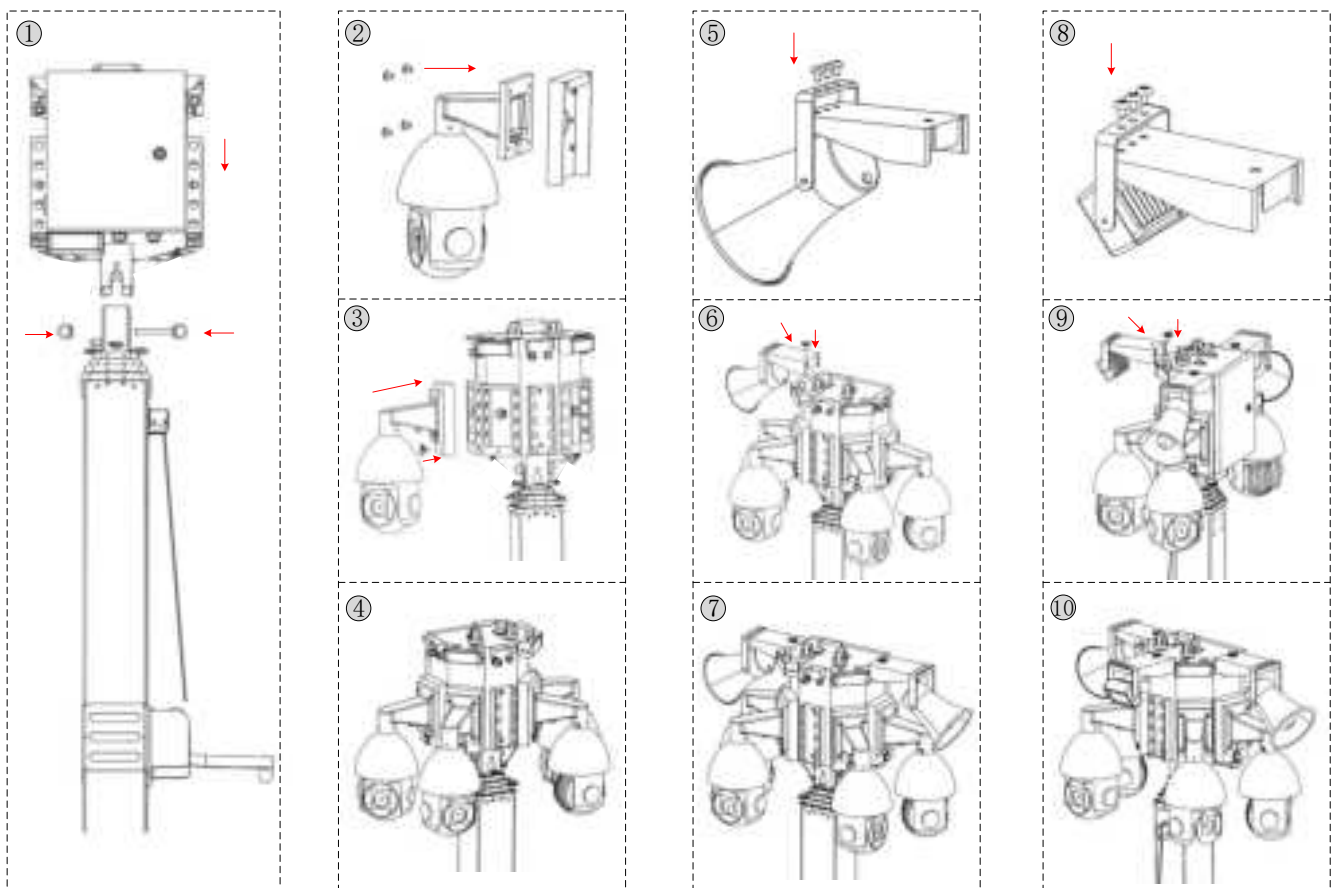


Fig. 3 Installation Steps for Equipment Hangers



Fig. 4 The state of Equipment Hangers Installation

## 2.3 Expansion of photovoltaic panels

This equipment is equipped with three photovoltaic panels. The middle panel is fixed to the bracket and cannot be moved, while the two side panels can slide to either side. Here are the operational steps:

Press the slide buttons at the bottom of the side panels and pull them outward directly.



The deployed status is as follows:

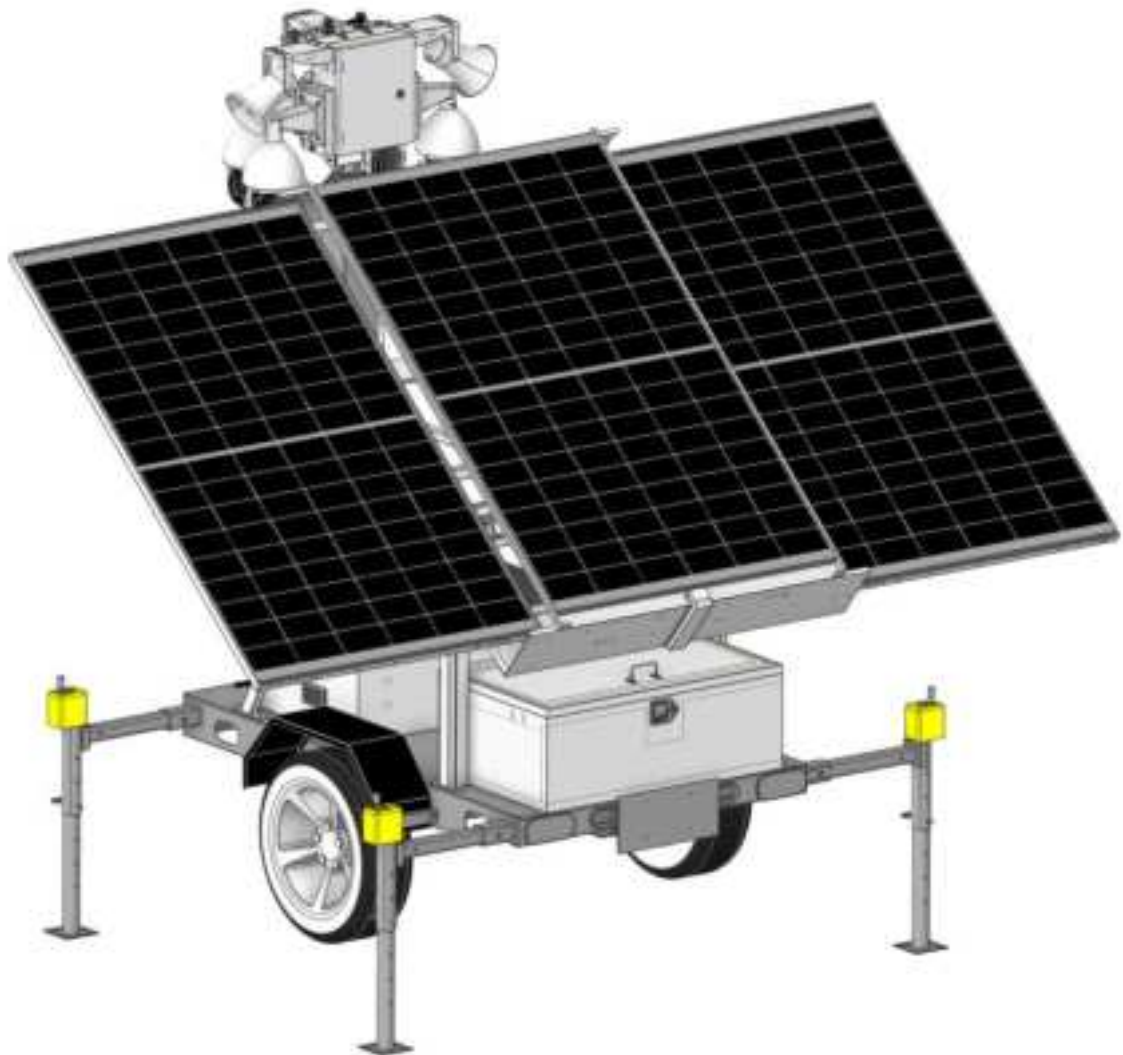


Fig. 5 The unfolded state of photovoltaic panels

## 2.4 Lifting of the mast

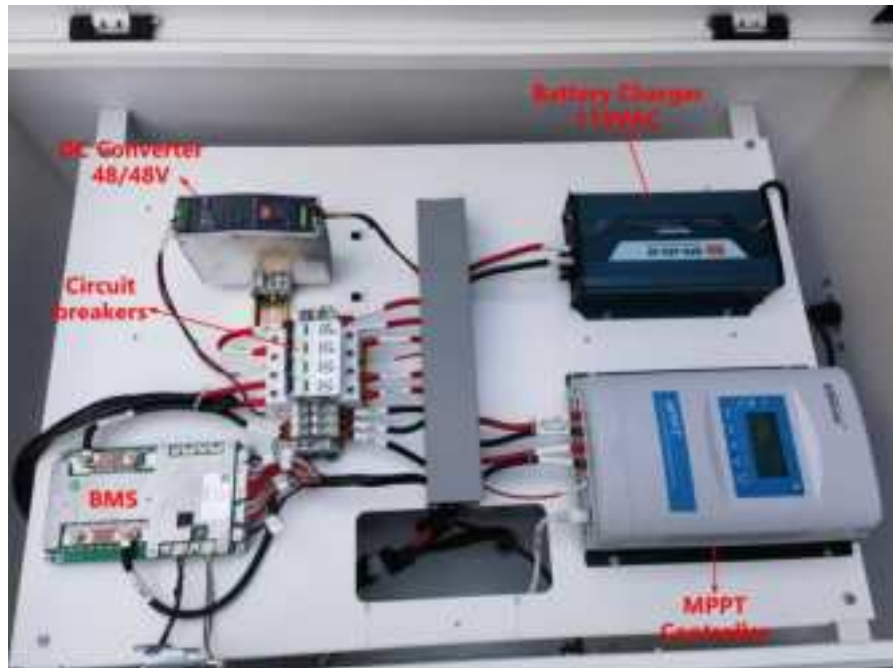
- 1) Retrieve two windproof steel cables from the storage box and securely attach them to the support feet and the mast at the front of the device.
- 2) Gently crank the handle of the mast upwards until the steel cables are taut. Observe the red indicator line on the mast, ensure that you do

not raise the rod beyond this point to avoid any potential issues.



Fig. 6 The lifting status of the mast

## 2.5 Opening of electrical equipment



- 1) Extract the key from the lockbox and proceed to open the electrical enclosure.
- 2) Inside the electrical enclosure, locate the circuit breaker switch, which is designed to control various sections under diverse operational conditions as depicted in Fig. 7.

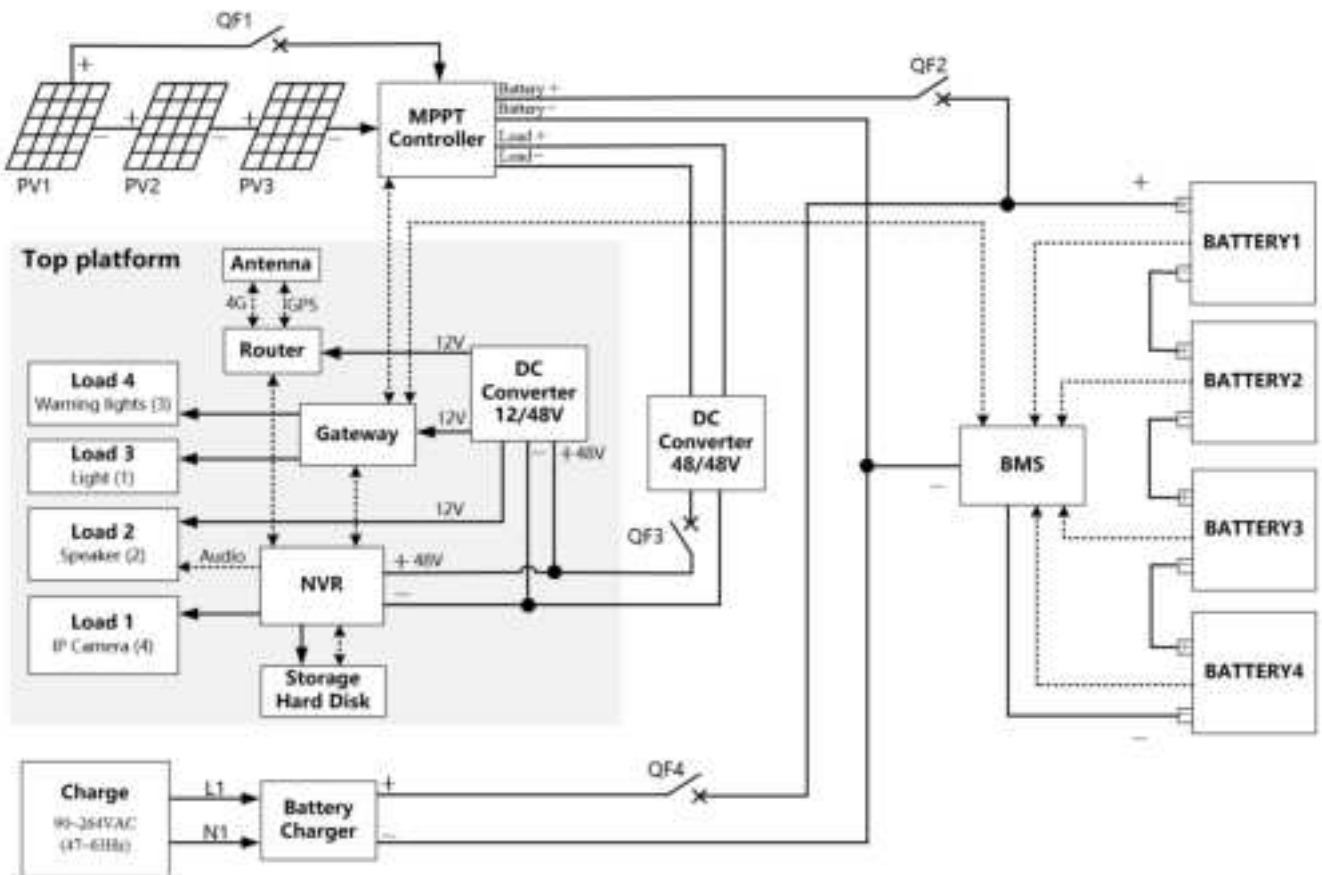


Fig. 7 Electrical schematic diagram

- **In use state:** Ensure that circuit breakers QF1, QF2, and QF3 are connected, QF4 is disconnected.
- **In charging state:** Ensure that circuit breakers QF2 and QF4 are connected, QF1 is disconnected.
- **In idle state:** Ensure that circuit breakers QF1, QF2, QF3, and QF4 are disconnected.

3) You will find a control QR code within the electrical enclosure. Scan this designated QR code. Upon a successful connection, you will be able to access information including battery status and network connectivity details.

## 2.6 Dragged driving

- 1) While operating the vehicle, ensure that the photovoltaic bracket is folded up, the mast is lowered, and the equipment hangers is removed and returned to the storage box. Also, ensure that the four corner supports are retracted.
- 2) Detach the pin, lower the front connector that is equipped with a steering wheel on the vehicle body, and then reinsert the pin to secure it in place.
- 3) Affix the front connector to the front of the pickup truck, ensuring a stable connection. Additionally, connect the control signal harness to the pickup truck to facilitate driving operations.



Fig. 8 The state of dragging and driving