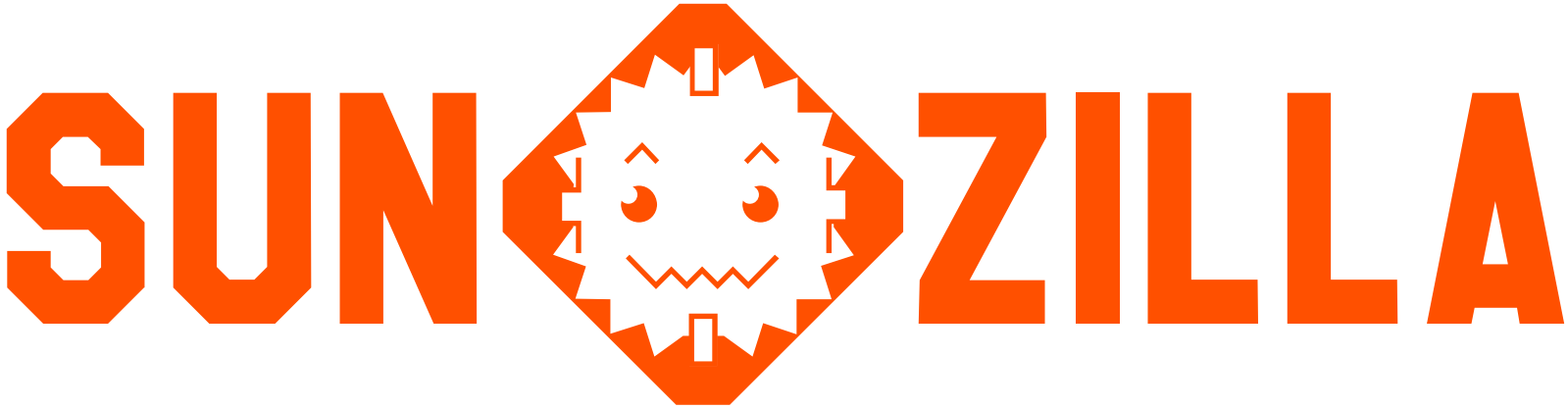


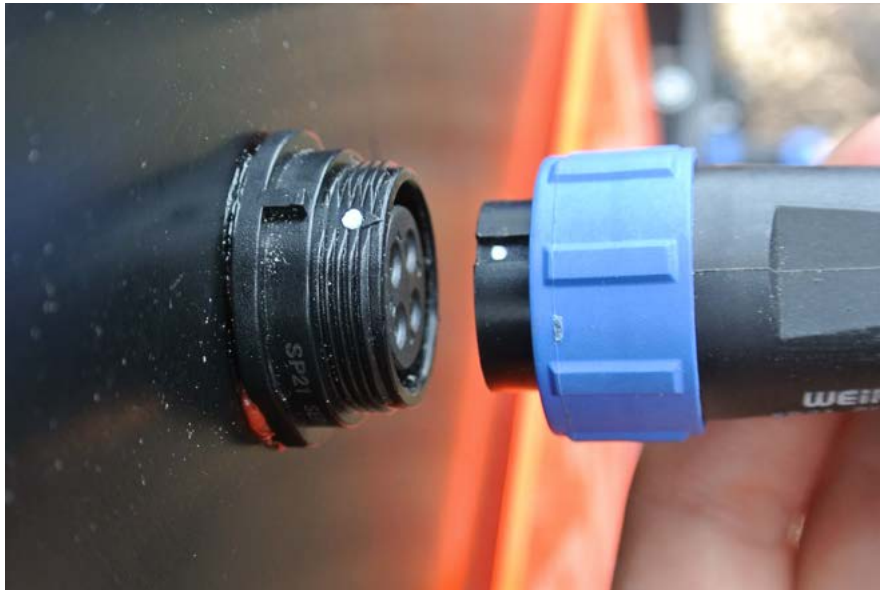
Prototype 3.0

Setup Manual

23 September 2015

1. Get all three boxes, the left one (A) is the battery box, the middle one (B) the solar box, and the right one (C) the socket box.

2. Open the solar module box, and get the solar cells, the cables, the aluminium profiles and the 8 screws outside.



3. Connect the three boxes. Press the cable inside when both white points match and turn the blue top unit of the cable to lock.

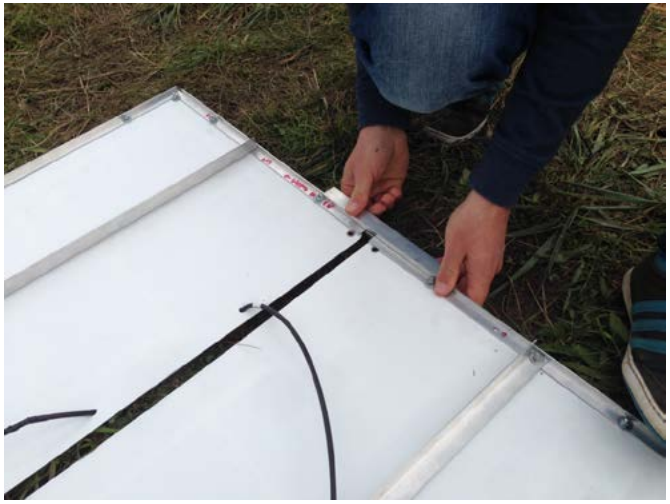


4. Close the solar module box, put the two long aluminium profiles in their holes. Open slightly the box and insert two screws to lock the profiles. Choose the same holes in the middle and be sure to do the same on both sides.

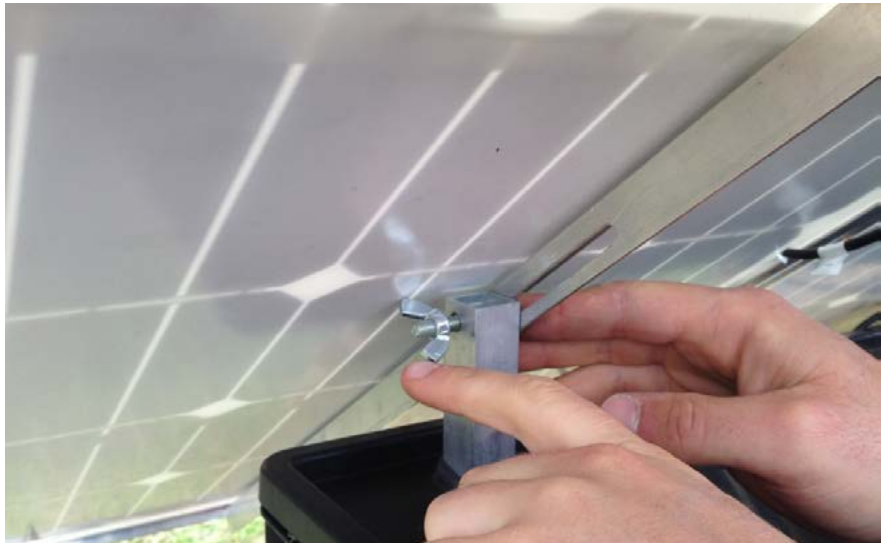
5. Take the shorter aluminium profiles, insert them as shown on the pic and lock them.

6. Pull down the elastic bands.




7. Take the solar cells. Unfold them and shift the aluminium edges at all four sides.



8. Take the upper part of the solar module and connect the whole solar module with the upper aluminium profile. Be sure that the solar module is on the left side of the aluminium profile. Connect also the lower part.

9. Connect the cables from the solar cells to the solar module box.

SET-UP READY !

COMMISSIONING:

10. Switch on battery box. Green light should turn on.

11. Switch on socket box. Green light should turn on.

12. Plug in consumer.

IMPORTANT!! DANGER!!
READ DISMANTLING MANUAL!!

At Dismanteling, you MUST follow the right order of these steps, otherwise ***you could be hurt***.

DISMANTLING:

13. Switch off Socket Box if switched on.

14. Turn Solar Panels out of sun and cover at least one Solar-Panel (for example with Pullover).

15. Disconnect Solar-Connectors.

16. Switch off Battery box.

17. Unplug / detach orange cables.

18. Switch on Socket box again until green light is off (to discharge local energy storage), then switch OFF again!

YOU’RE DONE!

Technical details

- Solar peak Power: 140W
- Maximum AC-output of pure sinus inverter: 350W (700W peakload)
- Effectiv battery storage: 600 Wh

Examples

Solar System

- Solar peak power: 140W
  - Sunny day
    - charging 25 Smartphones continiuosly
    - running one small fridge (60l) AND 2-3 Notebooks
    - running a water pump and purification 200L/d
  - Cloudy day
    - charging 10-15 smartphones
    - running ons small fridge OR 2 Notbooks
    - running a water pumpe and purification 80-100l/d

AC Output

- Maximum AC-output of pure sinus inverter: 350W (700W peakload)
  - Running light for 8 rooms
  - Charging 25-30 Smartphones at the same time

Battery storage

- effective storage capacity: 600Wh
  - charging arround 100 Smartphones
  - using 4 Notebooks during 6 hours
  - lighting 4 rooms for 4 hours
  - cooking ½ hours with one portable electrical cookingstove

- time to fully charge battery when empty
  - Sunny day
    - arround 5h when no other consumption
    - arround 10h when cahrging arround 10 Smartphones at the same time

  - Cloudy day
    - arround 10-12h consumption
    - arround 20h when cahrging 10 smartpohnes at the same time