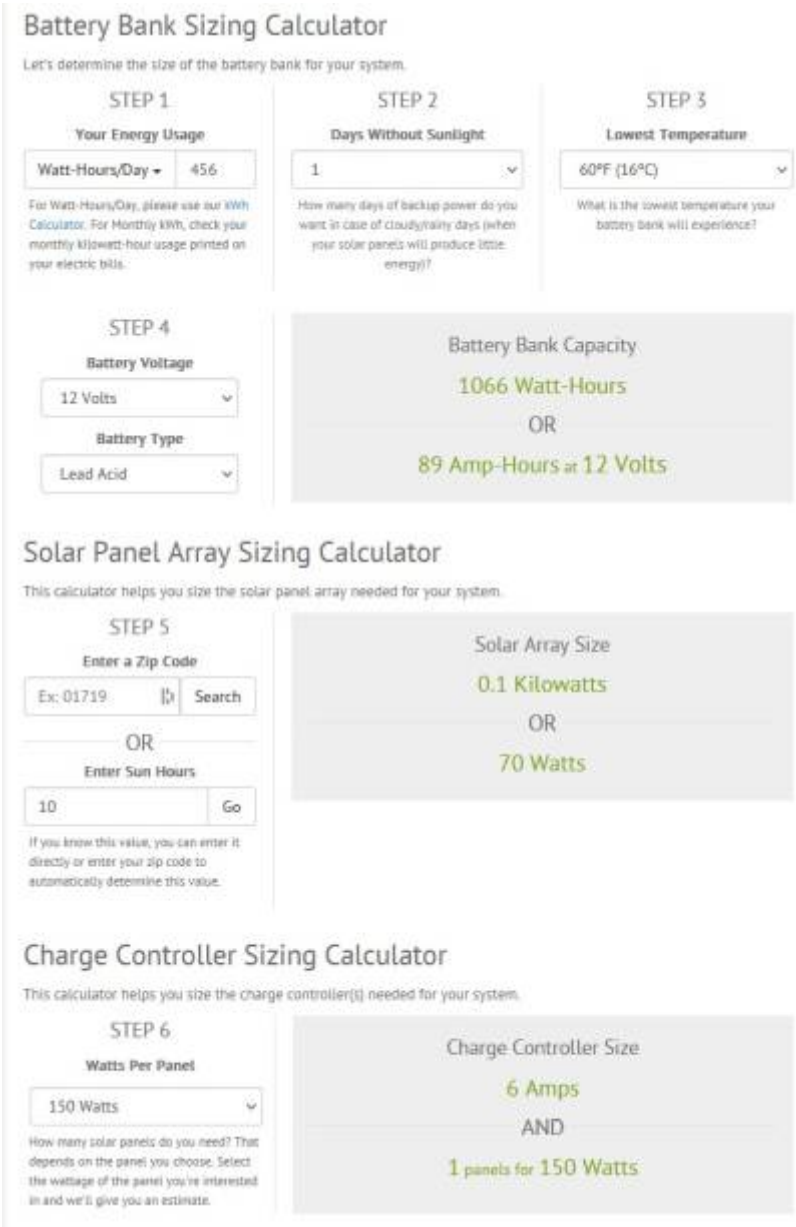
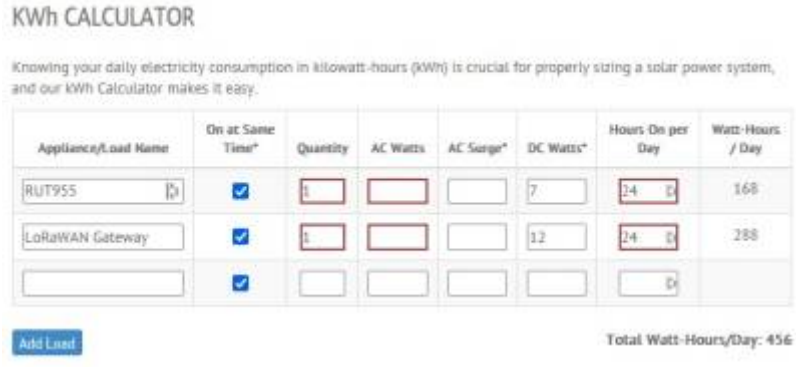
# Ecotower Notes

## Calculations

- Off Grid Calculator
  - 

- Load Calculator
  - 

    - Site Info 200 Watt System

- Site Info 400 Watt System
- Daytime Lengths over the year

## Solar-System

- Laderegler-EPSolar-MPPT-Triron-2210N-20A (ca. 140€)
  - inkl. UCS Schnittstelle
  - inkl. DS2 Display
  - inkl. Temperaturfühler
- Adapterkabel RS485-USB für EPSolar (20€)
- 160Wp Solarmodul (ca. 140€)
- 120Ah 12V Gelbatterie (ca. 300€)

Alternatives System:

- Alternative Bausatz (ca. 630€)

Github Repo:

- Implementation of RS485 Protocol

## Elektro

- Erdungsblock
- Sicherungsbox (ca. 40€)

## Gehäuse

- Rital Gehäuse 50cmx50cm
- Austrittsfilter
- Lüfter
- Filter
- Kühlung notwendig?

## IT Infrastruktur

- RUT955 - LTE Router (ca. 200€)
- LoRaWAN Gateway bspw. WisGate Edge Lite 2 (ca. 160€)