

Ecotower Notes

Calculations

- [Off Grid Calculator](#)

Battery Bank Sizing Calculator

Let's determine the size of the battery bank for your system.

STEP 1
Your Energy Usage

Watt-Hours/Day ▾ 456

For Watt-Hours/Day, please use our kWh Calculator. For Monthly kWh, check your monthly kilowatt-hour usage printed on your electric bills.

STEP 2
Days Without Sunlight

1 ▾

How many days of backup power do you want in case of cloudy/rainy days (when your solar panels will produce little energy)?

STEP 3
Lowest Temperature

60°F (16°C) ▾

What is the lowest temperature your battery bank will experience?

STEP 4
Battery Voltage

12 Volts ▾

Battery Type

Lead Acid ▾

Battery Bank Capacity

1066 Watt-Hours

OR

89 Amp-Hours at 12 Volts

Solar Panel Array Sizing Calculator

This calculator helps you size the solar panel array needed for your system.

STEP 5
Enter a Zip Code

Ex: 01719 Search

OR

Enter Sun Hours

10 Go

If you know this value, you can enter it directly or enter your zip code to automatically determine this value.

Solar Array Size

0.1 Kilowatts

OR

70 Watts

Charge Controller Sizing Calculator

This calculator helps you size the charge controller(s) needed for your system.

STEP 6
Watts Per Panel

150 Watts ▾

How many solar panels do you need? That depends on the panel you choose. Select the wattage of the panel you're interested in and we'll give you an estimate.

Charge Controller Size

6 Amps

AND

1 panels for 150 Watts

- [Load Calculator](#)

kWh CALCULATOR

Knowing your daily electricity consumption in kilowatt-hours (kWh) is crucial for properly sizing a solar power system, and our kWh Calculator makes it easy.

Appliance/Load Name	On at Same Time*	Quantity	AC Watts	AC Surge*	DC Watts*	Hours On per Day	Watt-Hours / Day
RUT955	<input checked="" type="checkbox"/>	<input type="text" value="1"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="7"/>	<input type="text" value="24"/>	168
LoRaWAN Gateway	<input checked="" type="checkbox"/>	<input type="text" value="1"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="12"/>	<input type="text" value="24"/>	288
<input type="text"/>	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Total Watt-Hours/Day: 456

- [Site Info 200 Watt System](#)

- Site Info 400 Watt System

Solar-System

- [Laderegler-EPSolar-MPPT-Triron-2210N-20A](#)
- inkl. UCS Schnittstelle
- inkl. DS2 Display
- inkl. Temperaturfühler
- [Adapterkabel RS485-USB für EPSolar](#)
- 160Wp Solarmodul
- 120Ah 12V Gelbatterie
- Alternative Bausatz
- [Implementation of RS485 Protocol](#)

Gehäuse

- [Rital Gehäuse 50cmx50cm](#)
- [Austrittsfilter](#)
- [Lüfter](#)
- Kühlung notwendig?

IT Infrastruktur

- [RUT955 - LTE Router](#)
- [LoRaWAN Gateway bspw. WisGate Edge Lite 2](#)

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