

## Battery sizing calculation for inverter

### Battery Size Calculator for Your Inverter System: A Step-by-Step Guide

Selecting the perfect battery size for your inverter system is important for guaranteeing an effective and reliable power supply. A small battery may leave you in the dark during power outages, while an oversized one can be a waste of money. To help you find the perfect match, here's a step-by-step guide to calculate battery size based on your power needs and inverter specifications.

#### 1.1. Calculate Your Daily Power Consumption

Start by assessing your daily power consumption which helps to calculate battery size for inverter. Make a list of all the appliances and devices you want to run on your inverter system. For each item, note the power rating (in watts) and how long you use it each day.

LED Light Bulb: 10 watts, used for 5 hours/day

Refrigerator: 150 watts, used for 24 hours/day

Television: 100 watts, used for 3 hours/day

To find the daily consumption for each device, use the formula:

Daily Consumption (Wh)=Power (W)xUsage Time (hours)

Refrigerator:  $150\text{ W} \times 24\text{ hours} = 3600\text{ Wh}$

Television:  $100\text{ W} \times 3\text{ hours} = 300\text{ Wh}$

Add these values to find your total daily power consumption:

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