

#flo #ref #hw

---

## 1 | This looks like a job for me,

so everybody, just follow me!!

### 1.1 | Attributes

quantitative 1. Voltage (V) 2. Capacity (Ah or Wh) 4. Type of current (DC or AC) 5. Charge/discharge rate (A or W) 6. Depth of discharge (%) 3. Type of battery (Li-ion, lead-acid, etc)

qualitative 1. Cycle count (lifetime) 2. Environmental score 3. Cost 4. Volume (dimensions) feel free to add more ahp values ig?

QUANTITATIVE: thresholding - Voltage - Usable Capacity - Continuous Power Rating - Instantaneous Power Rating - Round trip efficiency - Charge time - Temp variation

QUALITATIVE: ahp - Lifetime index aggregate {DoD, Cycle Count, Temp Variation, Discharge curve} - Maintenance - Cost (up front) - Volume (HxWxL) - Weight - Safety

#### 1.1.1 | combined

##### 1. quant

- voltage
- capacity
- current type (DC or AC)
- (dis)charge rate
- DoD
- Instantaneous power rating
- Round trip efficiency
- Temp variation
- type

##### 2. qual

- Lifetime
- Environmental impact
- Cost
- Dimensions
- Weight
- Maintenance
- Safety

## 1.2 | Battery Types

SGLA - sealed gel lead acid FLA - flooded lead acid LFP - lithium ion phosphate NMC - Lithium nickel manganese cobalt oxide

CMT - cement

Li-Ion NaS NiCd NiMH PbA PSB VRB SnBr

## 1.3 | Actual Batteries

### 1.3.1 | from comap

- Deka Solar 8GCC2 6V 198
- Trojan L-16 -SPRE 6V 415
- Discover AES 7.4 kWh
- Electriq PowerPod 2
- Tesla Powerwall+

### 1.3.2 | from outside

here. - Sharp's LMO battery (now NantEnergy) - LG Chem NMC battery - Tesla Powerwall NMC battery - Pika Energy Smart Harbor Battery system with Panasonic NMC battery - The TrinaBESS TrinaHome NCA battery range - SimpliPhi Power LFP battery system - sonnen LFP battery system - - Saft NiCd battery - Aquion Energy sodium-based battery - Trojan flooded lead-acid batteries - Rolls' flooded lead-acid battery - Crown Battery AGM lead-acid battery - U.S. Battery AGM lead-acid battery - Trojan Battery gel lead-acid battery - ESS RFB storage system - Primus Power ZNBR hybrid flow batteries

here has helpful info as well - Sonnen ECO - Senec Home v2 - Varta Pulse 6 - Delta bx6.3 - LG chem Resu Series - LG chem Resu H Series - BYD LVS 4.0

could go to amazing and get a lot more

## 1.4 | attributes by type of battery

- maintenance
  - LI: 1
  - SLA: 2