

## Fortress Power vs Rolls

	<b>1x Fortress LFP-10 (51.2V, 200AH @ 37A)</b>	<b>8x Rolls S6 GC2-HC (48V, 154AH @ 37A)</b>	
<b>Total Energy in kWh</b>	10.12	10.56	
<b>Round trip efficiency</b>	98%	70% **	** 154AH/220AH = 70%
<b>Cycle Life @ <u>80% DOD</u></b>	6,000	800	
<b>Off Grid Years (1 cycle per day)</b>	<b>16.4</b>	<b>1.9</b>	
<b>Energy Throughput in MWH</b>	47.6	4.7	
<b>The Homeowner Cost in USD</b>	6,750	1,400	
<b>Cost per kWh (\$/kWh)</b>	<b>0.14</b>	<b>0.29</b>	
<b>Safety</b>	Yes	No	
<b>Free Maintenance</b>	Yes	No	

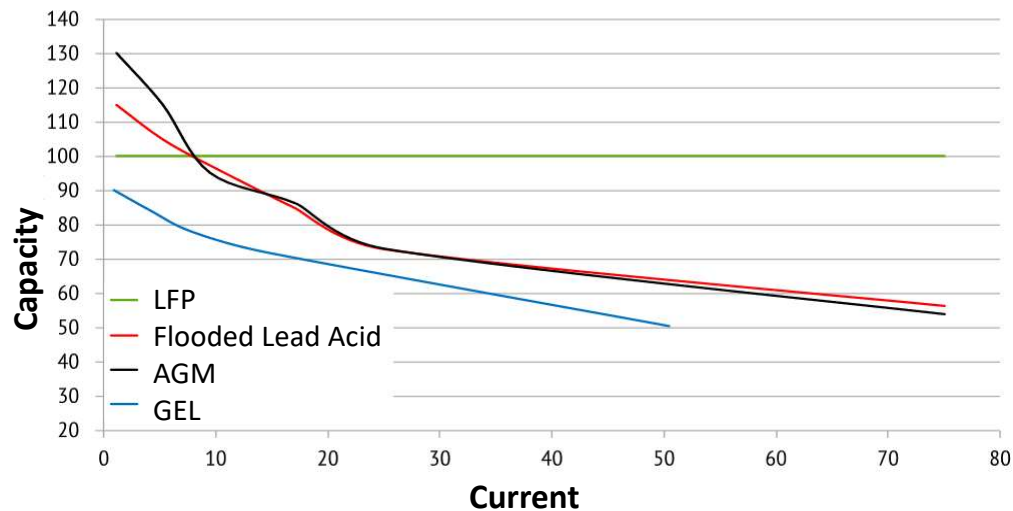
**Energy Throughput:** The total amount of energy a battery can be expected to store and deliver over its lifetime

**Energy Throughput**=Nominal energy capacity x Round trip efficiency x Depth of Discharge (DoD)x Cycle life

**Cost per kWh** = The Homeowner Cost/Energy Throughput

# Performance Comparison: LFP vs. Lead Acid

LFP vs Lead Acid at various discharge rate



## Disadvantages of Lead Acid:

- *Capacity drops significantly when output current increases*
- *6 times more space*
- *Higher cable cost and longer installation time*

## Space Comparison: LFP is 1/3 size and 1/3 weight of AGM

---



**AGM Batteries**  
**48V, 250AH**  
**(6 kWh usable power )**

**Fortress eVault**  
**48V, 360AH (18.5**  
**kWh usable power)**

# Lithium Iron Phosphate (LFP) Technology Advantage

---



**Superior Safety**



**High Throughput**



**Long Duration**



**Low Energy Cost**