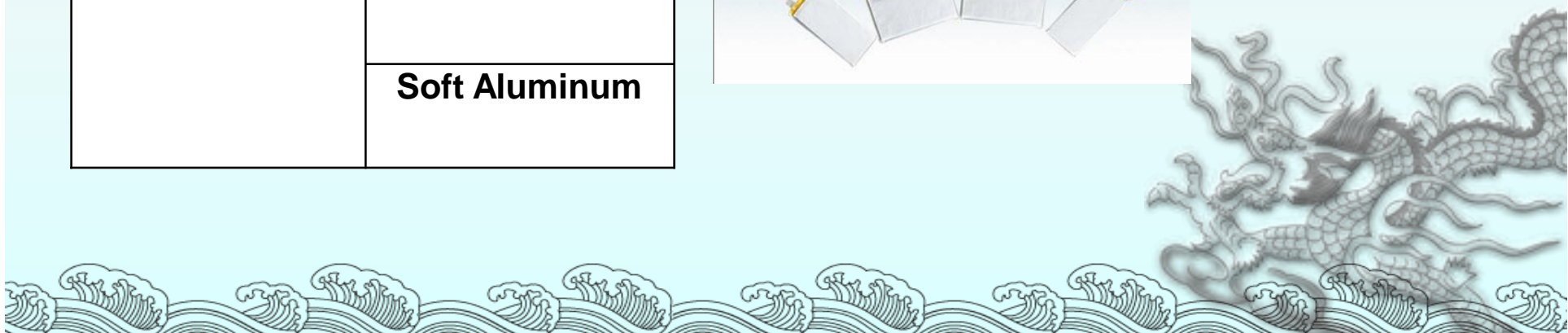
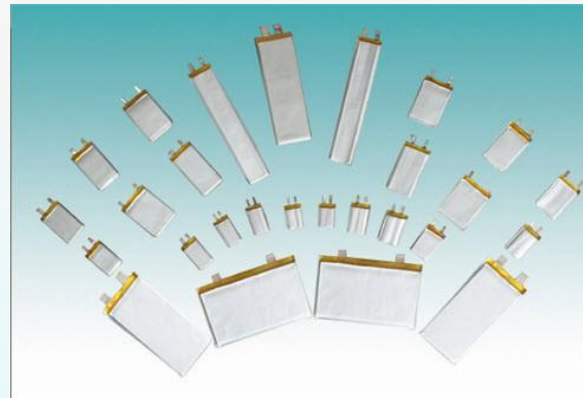


# Why Cylindrical LiFePO4 Battery?

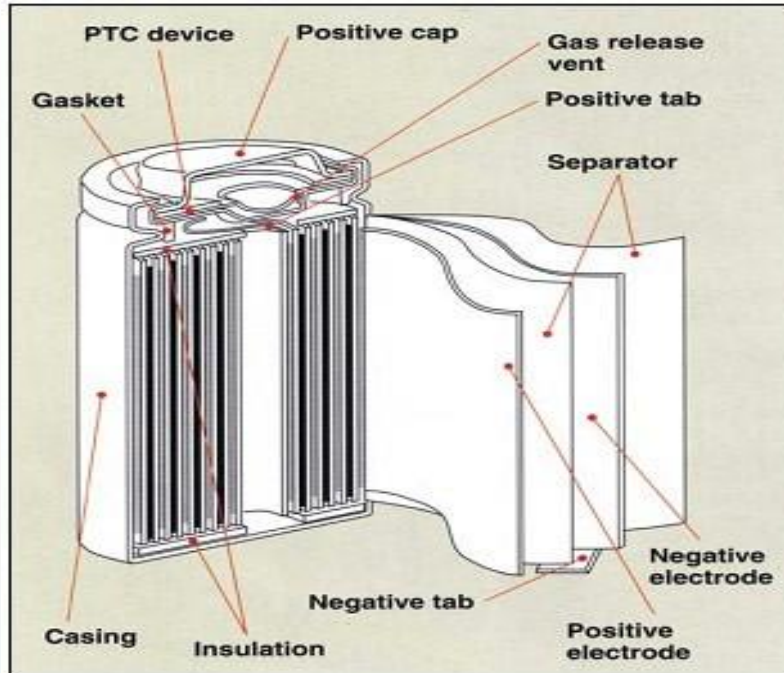
## 1. Cylindrical LiFePO4 Battery VS Flat LiFePO4 Battery

Type	Case material
Cylindrical Cell	Steel
	Aluminum
Flat&Prismatic Cell	Steel
	Aluminum
	Plastic
	Soft Aluminum



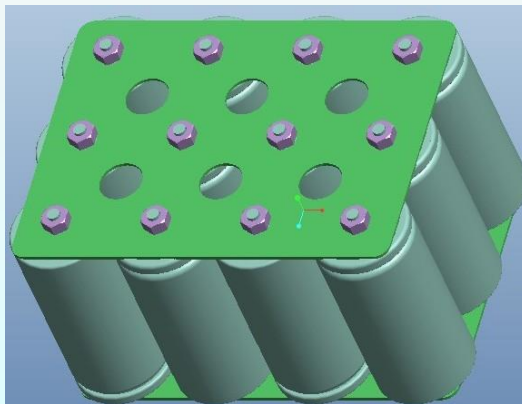
# Why Cylindrical LiFePO4 Battery?

## 2. Advantages and discharges of Cylindrical LiFePO4 Battery?



### Advantages

1. Even by force ;
2. Good for cooling and temperature controlling;
3. safer, with anti-explosion equipment
4. surrounded by unloading force and multi-faceted protection
5. Mature production workmanship and could be automatic production, with better consistency
6. Lower energy power, smaller destructive thermal runaway
7. Easy for cells replacement and battery pack repair

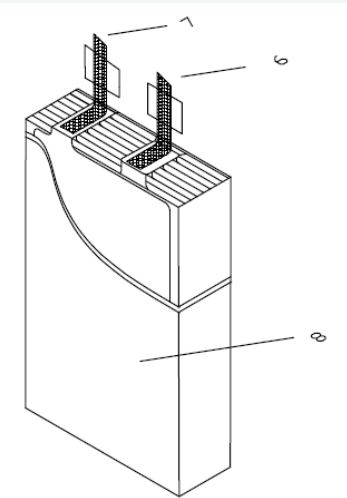
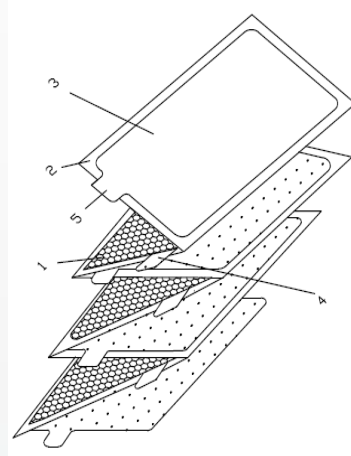


### Disadvantages

1. inefficient space
2. Lower Capacity , need many singles connected in serial and in parallel

# Why Cylindrical LiFePO4 Battery?

## 3. Advantages and discharges of Flat LiFePO4 Battery?



### Advantages

1. Interior parallel connection, could be with higher capacity
2. Higher efficient space

### Disadvantages

1. Not good In cooling and temperature controlling;
2. Full sealed design, bad for maintenance and repair
3. Low anti-explosion and proof
4. Easy to be leakage and low safety
5. Hard to be with automatic production, bad consistency
6. Easily lead to swelling and deformation, not good for lifetime.

# Why RELiON LiFePO4 Battery?

## 1. Mechanical Features

1) Strong, assembly with screws , PCB and steel board

2) shock resistance

Tested by Impact, dropping, Crush

3) electrical conductivity

Low resistance, checked by high current test

4) heat loss

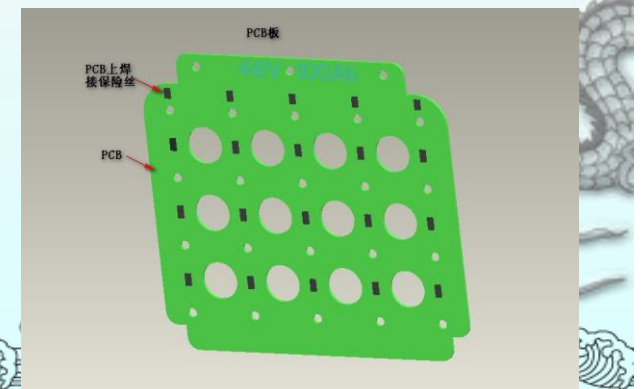
well-distributed gap, good cooling

## 2. Pack Technology

Have the function, the current flows through in lengthways and then with cross-protection by small fuse on the PCB(with patent protection)

## 3. Safe

passed the below abuse and safety test: Short circuit, Dropping, Nail Penetration, Impact, Crush, Thermal Shock, Over charge, Over discharge. NO explosion, no fire.



# Why RELiON LiFePO4 Battery?

4. The current is well-distributed, with diagonal connection design, which let all the cells charge or discharge under same condition.

This could make the battery lifetime longer.

