

## Ultra thin battery

### 0.4mm-1.5mm thin Lithium polymer battery for smart cards applications

Ultra thin battery is a lithium ion polymer battery with a thickness of less than 1.5mm. With long years of experiences on custom special battery, Padre can design and produce variety of ultra thin battery which ranges from 0.4mm to 1.5mm. Being as thin as paper, it is widely used in smart cards, credit cards, RFID, Safety guards, smart access system and so on.

[Learn more about it](#)[Contact for custom ultra thin battery solution](#)

## Visitor guidance

[What is ultra thin battery?](#)[Why PD ultra thin battery?](#)[Hot selling ultra-thin batteries](#)[FAQ](#)

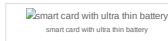
### 1-What is ultra thin battery.

Ultra thin battery is an important type of special shape lithium polymer batteries with amazing super thin feature. The thickness can be as thin as 0.4 mm ~ 1.5 mm, just like that of a hard paper. As a custom shape battery, ultra-thin battery is catching more and more attentions from smart cards companies.



ultra thin battery

As we come to a smart controlling world, more and more consumer electronics that we always use are also changing themselves to catch up with the new demands. We already saw the innovation of smart glass, smart watch, smart bracelets, with embedded multi functions, they made our lives more and more convenient. In the past years, USA and some EU countries are developing smart financial system, part of the plan is to push the applications of smart cards for payment, access system. With very limited space in the cards, a new ultra thin rechargeable battery must be created to fit it.



smart card with ultra thin battery

Padre designed its ultra thin lipo battery series to meet the demand from global smart card market. Now we can make the battery as thin as 0.4mm, it can be fit most smart card design needs. so far we have mass produced several 1mm and 0.8mm ultra thin batteries for company like HONEYWELL.

#### Ultra thin battery major technical specs:

- Nominal voltage: 3.7 V ( or 3.8V )
- Charging voltage: 4.2 V
- Discharging cut off voltage: 3.0V or 2.75V
- Charging cut off voltage: 4.2V
- PCM( protection circuit) Required: Yes, recommend to be integrated into application PCBA.
- Capacity: custom
- Thickness: 0.4mm-1.5mm
- Typical application: Smart cards.

### 2- Why PADRE ultra thin battery

PADRE is one of earliest lithium polymer battery manufacturers who developed ultra thin battery in the world. Begin from 1.5mm, then 1.2mm, 1.1mm, 0.8mm to now 0.4mm, we developed comprehensive design and manufacturing ability on ultra thin battery. PD series ultra batteries passed customer tests and proved to be reliable in long term operating.

#### PD ultra thin battery advantages

- flexible support on custom solutions
- Reliable and stable performance
- Long cycle life
- Safe. We do strict safety tests on these batteries before delivery.
- Long years of experience on ultra thin battery
- Samples and mass production are available
- OEM, ODM available.

### 3- Some hot selling ultra thin batteries.

### 4- FAQ on ultra thin battery.

#### LiPo battery 2019 by capacity

10mAh-100mAh 100mAh-200mAh  
200mAh-300mAh 300mAh-400mAh  
400mAh-500mAh 500mAh-600mAh  
600mAh-700mAh 700mAh-800mAh  
800mAh-900mAh 900mAh-1000mAh  
1000mAh-1500mAh 1500mAh-2000mAh  
2000mAh-2500mAh 2500mAh-3000mAh  
3000mAh-4000mAh 4000mAh-12000mAh

#### LiPo battery by size

7mm-10mm 11mm-15mm  
16mm-20mm 21mm-25mm  
26mm-30mm 31mm-35mm  
36mm-40mm 41mm-50mm  
51mm-60mm

#### LiPo battery by shape

Ultra thin battery  
Ultra narrow LiPo battery  
Ultra small LiPo battery  
Cylindrical LiPo battery  
Round LiPo battery  
Curved battery

#### LiPo battery by temperature

Low temperature battery  
High temperature battery

#### LiPo battery by C rate

3C 5C 8C 10C 15C 20C 25C  
30C 35C 40C 50C 60C 75C 85C

#### RC LiPo battery packs by applications

For RC hobbies  
For air soft gun toys  
For RC aircraft  
For toys

Question 1: Can you make custom ultra thin battery for us?  
Answer: Yes, you can tell us your requirements on the battery thickness, width, length, capacity, continuous discharge current, peak discharge current, and the positive tab, negative tab position, we will create a battery solution for your confirmation, if its ok, then we will make it for you.

Question 2: How to order ultra thin battery?

Question 3: What kind of Gurranty do you have for your ultra thin battery?

Question 4: How long is your lead time for the ultra-thin LiPo battery?

Question 5: Can you make high rate ultra thin battery for us?

Question 6: Do you offer datasheets/specifications for your ultra thin batteries?

Question 7: Do you have lab testing data for your ultra thin battery?

Question 8: Can you apply battery certificates IEC62133 and UN38.3 for us ?

Contact us with your  
inquires (battery@lipo.com)

Tell us what kind of LiPo battery you are looking for:

- 1-Voltage
- 2-Capacity you hope to have
- 3-Battery size/dimintions
- 4-Work current of your device
- 5-Cables and connector

Contact Us

Name

Email

Message

11 + 14 =

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