

Bridgewater Energy Systems

Lithium-ion Polymer Rechargeable Batteries Providing World Class Energy Solutions

Advantages of polymer lithium ion battery:

Thinner - advantages one: The thin to 0.5 mm: with no leakage danger colloidal electrolyte, can be used to reduce the thickness of plastic film for packaging.

Lighter - advantages two: Volume density is 170 WH / kg. Compared with the traditional liquid lithium ion battery light 15%.

More safety - advantages three: No leakage, no explosion.

Long life - advantages four: Can be recycled one thousand times.

Cold resistance - advantages five: At minus 10 degrees can still keep about 90% of capacity.

Stable - advantages six: The liquid electrolyte battery: in full charge or after multiple cycles usually expand 0.2-0.6 mm. Polymer lithium ion battery is only 0.1 mm.

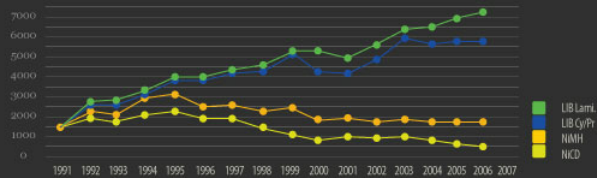
Localization - advantages seven: Local production, local delivery, local support.

Outstanding Market Prospects

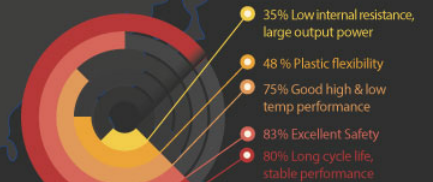
Sony Corp of Japan in 1991 used the first commercial production of a lithium ion battery, in 1999 the battery market was about \$1,200,000,000 a year [1].

Wherein, polymer lithium ion battery (lithium battery) market share has increased from 1.22% in 1999 to about 11.76% in 2005, the next three years is expected to increase to 20%-25% [10], product market to maintain steady development trend.

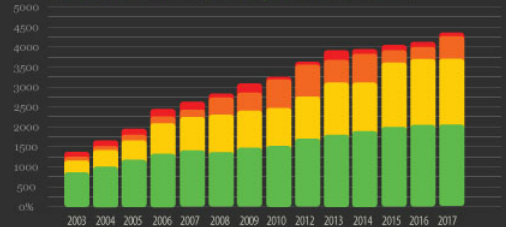
In 2007, the two times global battery market for a total of \$6,700,000,000, including lithium ion battery market for a total of \$5,000,000,000, accounting for 75% of the market share.



Polymer Battery Performance Characteristics



World lithium-ion battery market forecast



The next ten years of lithium ion battery market by an average of 10% speed growth