

# Larger capacity, enhanced safety stressed

## Typical features

- **Protection circuitry:** Some manufacturers can lay out the protection circuitry in-house. For the battery protection ICs, mainland China enterprises turn to Japan or Taiwan suppliers such as Ricoh and Fortune Semiconductor. Most source PCBs from local partners.

- **Capacity:** Low-end units deliver 600 to 900mAh, while midlevel and upscale types pack 800 to 1,800mAh. Makers employ low-pressure injection technology to expand capacity.

- **Li-ion cell:** Many makers obtain the cells from domestic providers. Some suppliers, however, develop them in-house. Grade A cell is widely utilized, although grade B and C types are also key options.



- **Shell:** Most units adopt aluminum, while other models employ steel. Plastic injection molding is used for the outer casing.

Price range (per unit)	Basic features
\$0.90 to \$2	600 to 900mAh capacity; grade A battery cell with optional IC protection; for Nokia, Samsung, Motorola mobile phones
\$2 to \$3.50	1,000 to 1,800mAh capacity; grade A battery cell with double IC protection; for Nokia, Samsung, Motorola, HTC mobile phones
\$2.50 to \$5	800 to 1,500mAh capacity; grade A battery cell with double IC protection; for BlackBerry mobile phones

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## Top trends

- **Large capacity:** China suppliers are expanding battery capacity to meet the power requirements of the iPhone and other smartphones, with most units delivering 1,200 to 2,000mAh. To this end, suppliers adopt low-pressure injection technology to improve structural design without compromising the capacity.
- **Safety enhancements:** Manufacturers integrate double IC protection to prevent potential hazards as a result of overcharging and -heating, and short circuit. Some employ special explosion-resistant cables.
- **Li-ion:** Many enterprises prefer Li-ion kinds to Li-polymer variants given the latter's high defect rate and steep production cost.
- **Price forecast:** Most makers hope to keep quotes stable. Markups will depend on raw material costs and the yuan-dollar exchange rate.
- **Sales outlook:** Despite the financial slump in the EU, many makers project a 10 to 20 percent increase in sales in 1Q12 owed to a booming smartphone sector. Orders from emerging markets such as South America and the Middle East are also expected to raise revenue.

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### [Guangdong Pisen Electronics Co. Ltd](#)

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**Model:** TS-MT-BL-5C

**Description:** Li-ion; 1,050mAh capacity; 3.7V; 4.2±0.05V charging voltage

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### [Scud Battery Co. Ltd](#)

**Model:** SCL-1109A

**Description:** Li-ion; for BlackBerry M-S1; grade A battery cell; double IC protection; CE, FCC, RoHS



### [Shenzhen BAK Technology Co. Ltd](#)

★★★★☆

**Model:** Mot V3

**Description:** Li-ion; for Motorola RAZR V3; grade A battery cell; 650mAh capacity; 3.7V; double IC protection

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### [Shenzhen Shirui Battery Co. Ltd](#)

★★★★☆

**Model:** BL-4U

**Description:** Li-ion; 1,000mAh capacity; 3.7V; double IC, overcharge, -discharge, short-circuit protection; 61.9x38x4.6mm

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### [Shenzhen Wanshun Technology Co. Ltd](#)

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**Model:** WST-USA0111030-NOKBP4L

**Description:** Li-ion; 1,500mAh capacity; 3.7V; overcharge, short-circuit protection

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### [Shenzhen Wextom Electronic Co. Ltd](#)

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**Model:** Anti-Explosion Battery Series

**Description:** Li-ion; 3.7V standard voltage; overcurrent, short-circuit protection; CE, RoHS

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