

# Long Lifespan and Ultra Safe Rechargeable Cell

## Lithium Iron Phosphate (LiFePO4) Cell

specializes in developing and manufacturing advanced LiFePO4 batteries which feature both high power and energy densities with a long lifespan and ultra safe performance. Bestgo Power's unique water-based manufacturing technology can help customers design products that outperform other LiFePO4 batteries. Company also takes advanced technologies include updated battery materials, effective manufacturing method, high precision quality control system and abundant safety design etc. Bestgo Power's high quality products would help customer build the excellent energy storage systems as customer required.



### Overview

BP-HK-8A is one kind of LiFePO4 pouch cells offered by Bestgo Power Co., Ltd. This kind of pouch cells is featured as good energy density, long cycle life, environmental friendly and ultra safety. To well assure our battery quality, we deployed an advanced PDMS(Product Database Management System) to monitor manufacturing processes. With high precision quality control and auto matching system, our products have a better quality than other competitors. We also offer well selected cells for battery pack, after selected cells have amazing consistency for battery pack. Plus, we can offer battery packs with BMS built in. We are glad to help customer build nice energy storage systems for light traction applications like e-bikes, e-scooters, portable power etc.

### Specifications (BP-HK-8A)

Cell Dimensions (L*W*H)	82*12*100 mm
Without terminals	3.23*0.47*3.94 inches
Cell Weight	220 g / 0.48 lbs
Rated Capacity (1C Discharge, 23°C)	≥ 8,000 mAh
Charge Voltage	3.65V Standard (3.4V Float, 3.85V Cut-off)
Operating Voltage	3.2V @ C/3, 23°C/73°F (2.5V Cut-off)
Nominal Discharge Current	≤24A (3C)
Pulse Discharge Current (30sec, 23°C)	≤40A (5C)
Nominal Charge Current	≤8A (1C, 23°C/ 77°F)
Internal Resistance	≤ 6 mΩ
Operating Temperature	Charge: 0°C ~ 45°C Discharge: -25°C ~ 55°C
Cycle Life (23°C, at +/- C/3 rate)	≥2,000 times @ 80%DOD ≥1,500 times @ 100%DOD
Standard Charging Method (CC / CV mode)	C/3 Constant Current to 3.65V Limit, then Constant 3.65V Voltage with Current Taper to C/20.

Performance may vary depending on, but not limited to cell usage and application. If cell is used outside specifications, performance will diminish. All specifications are subject to change without notice. All information provided herein is believed, but not guaranteed, to be current and accurate.

