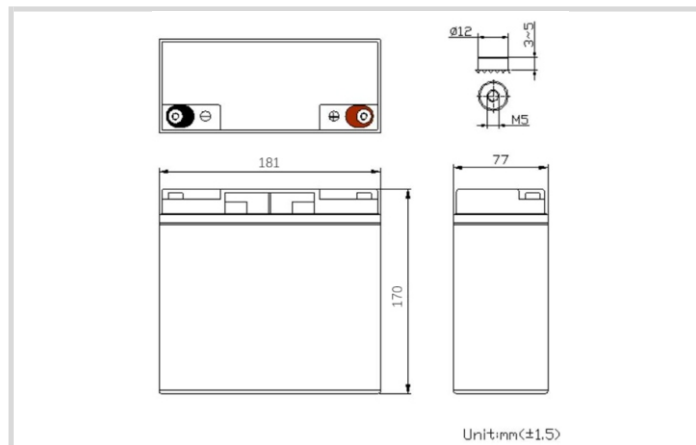


JYC LiFePO4 lithium batteries are able to provide you superior performance, durable life cycle, high safety and long lasting reliability under different situations. JYC insists on using state-of-art of high quality lithium cell and advanced BMS technology, our batteries are robustly designed for wide range applications. JYC's 12V, 24V, 48V/51.2V series lithium battery, which are popularly used in industrial, residential, commercial and military fields, such as solar/wind energy storage power system, home ESS, telecommunication site, UPS/Data Center backup power, electric vehicle, golf cart, floor machines, forklifts, robotics, marine, RV, medical equipment etc.



## BATTERY SPECIFICATIONS

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Nominal Voltage     | 12.8V                                                     |
| Nominal Capacity    | 24Ah@0.5C                                                 |
| Min. Capacity       | 23.5Ah@0.5C                                               |
| Nominal Energy      | 307.2Wh                                                   |
| Internal Resistance | ≤ 30mΩ                                                    |
| Cycle Life          | 2500 Cycles @12A Charging/Discharging ,Until 80% Capacity |
| Self Discharge      | ≤ 2% per month at 25°C&50%SOC                             |
| Bluetooth&Heat      | Optional                                                  |

## Standard Charging &Discharge

|                                     |                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Charging Voltage                    | 14.0~14.4V                                                                        |
| Charging Mode                       | CC-CV                                                                             |
| Recommened Charging Current         | ≤ 12A                                                                             |
| Max.Charging Current                | 20A Continuous charging with this current may trigger BMS temperature protection. |
| Recommened Discharging Current      | 12A                                                                               |
| Max. Continuous Discharging Current | 20A                                                                               |
| Max.Pulse Current                   | 75(<10S)                                                                          |
| Discharging Cut-off Voltage         | 10.8                                                                              |

## Operating Condition

|                       |                                                        |
|-----------------------|--------------------------------------------------------|
| Charge Temperature    | 0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity   |
| Discharge Temperature | -20°C to 60°C(-4°F to 140°F) @60±25% Relative Humidity |
| Storage Temperature   | 0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity   |

## Structure

|                       |                |
|-----------------------|----------------|
| Casing                | Plastic        |
| Dimension(L*W*H*TH)   | 181*77*170mm   |
| Weight                | Approx. 2.5Kgs |
| Terminal              | M5             |
| Water Dust Resistance | IP65           |

## Number of batteries used in series and parallel

|                                        |      |
|----------------------------------------|------|
| Maximum number of series connections   | 4PCS |
| Maximum number of parallel connections | 4PCS |

## Certifications

|                      |                  |                |
|----------------------|------------------|----------------|
| UL(Cell)             | CE(Cell/Battery) | IEC62133(Cell) |
| UN38.3(Cell/Battery) | ROHS(Cell)       | IEC62619(Cell) |

## Constant Current Discharge Data (Amperes @ 25° )

| Discharge Time          | 1h  | 2h  | 3h | 4h | 5h   | 10h  | 20h  |
|-------------------------|-----|-----|----|----|------|------|------|
| Cut off voltage (10.8V) | 24A | 12A | 8A | 6A | 4.8A | 2.4A | 1.2A |

## Constant Power Discharge Data (Watts @ 25° )

| Discharge Time          | 1h   | 2h   | 3h   | 4h  | 5h  | 10h | 20h   |
|-------------------------|------|------|------|-----|-----|-----|-------|
| Cut off voltage (10.8V) | 298W | 151W | 101W | 76W | 61W | 31W | 15.5W |

## Market Application



Low-speed car



Golf cart



Light EV



Robotics



Cleaning

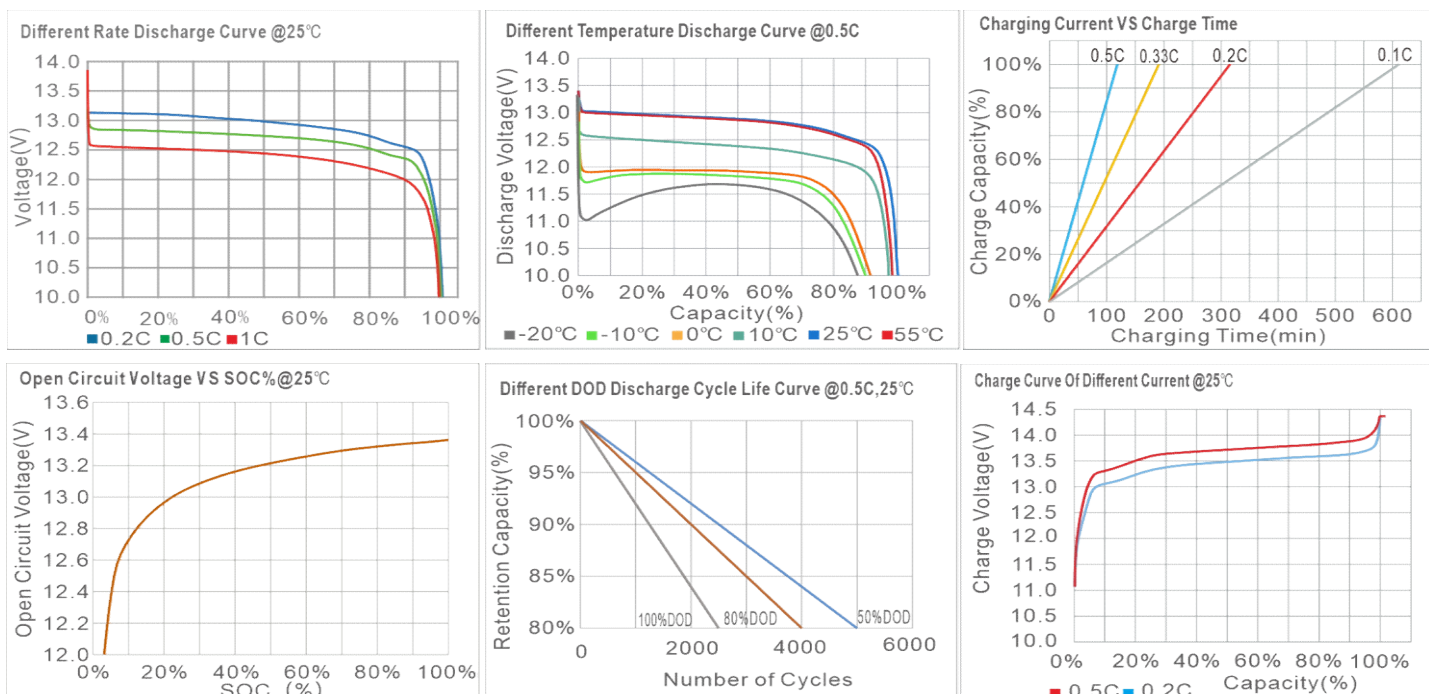


Solar & Wind



Lighting

## Battery characteristic curve



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.

Note 3: Parallel connection is only for longer backup time, not for larger output power.