

## Lithium-ion Power Battery for E-Bike Applications

Designing for E-Bike application platform, optional with either LiNiCoMnOx(NCM) or LiFePO<sub>4</sub> cells.  
Stable voltage platform ensures continuous and stable power output for E-Bikes.  
Small in size and light weight design, which is the E-Bike battery trend.  
Safe and reliable Battery Management System to realize the maximization of the control and performance of the battery.





# Battery Pack Solutions

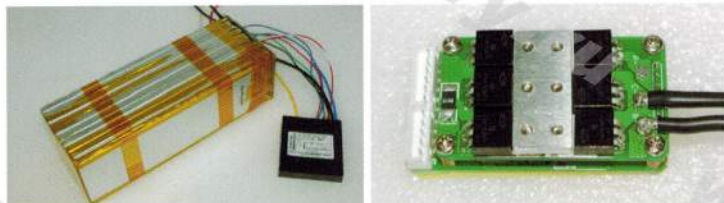
EVE have specialized in battery pack business over ten years ranging from Lithium-ion Polymer, Lithium-ion, Nickel-Metal Hydride, Nickel-Cadmium to other lithium primary batteries.

EVE can offer the professional technology for customers products.

Our cell selection and project management approach

ensure that we deliver the products based on five key criteria that

our customers demand as safety, performance, reliability, functionality and affordability.



## Key Feature

- High safety and long cycle life over 800 times.
- With automatic productions, the consistency of the battery is ensured and suit for series-parallel assembly.
- Available in cylindrical and various prismatic types, with capacities of single cell from 2.0Ah to 20Ah and battery assembly according to customers' different requirements.
- High - rate discharging and stable operating voltage.
- Wide operating temperature from -20°C to +60°C, excellent performance at high temperature.
- Environmental friendly with ISO 14000, compliance with UL, UN and ROHS directions.



| Product                    | Name           | Voltage/Capacity | Batteries Type                  | Size         | Combination  |
|----------------------------|----------------|------------------|---------------------------------|--------------|--------------|
| <b>Center Battery Pack</b> |                |                  |                                 |              |              |
|                            | Whitebait Type | 36V/8.5Ah、10Ah   | Ternary, Polymer                | 385*110*76mm | 10strings    |
|                            |                | 48V/8.5Ah、10Ah   |                                 |              | 13strings    |
|                            |                | 36V/8.8Ah        | Panasonic, 18650                |              | 10strings, 4 |
|                            |                | 36V/13.2Ah       |                                 |              | 10strings, 6 |
|                            | Ryoma Type     | 36V/8.5Ah、10Ah   | Ternary, Polymer                | 380*136*89mm | 10strings    |
|                            |                | 48V/10Ah、20Ah    | Ternary, 26650                  |              | 13strings    |
|                            |                | 36V/12Ah         |                                 |              | 10strings, 3 |
|                            |                | 48V/8Ah          | 10strings, 2                    |              |              |
|                            |                | 36V/10Ah         | Lithium iron phosphate, Polymer |              | 12strings    |
|                            | HaiTian No.2   | 36V/8.5Ah、10Ah   | Ternary, Polymer                | 430*104*80mm | 10strings    |
|                            |                | 48V/8.5Ah        |                                 |              | 13strings    |
|                            |                | 36V/6.6Ah        | Panasonic, 18650                |              | 10strings, 3 |
|                            | PingGuang Type | 24V/8Ah、10Ah     | Ternary, Polymer                | 400*76*82mm  | 7strings     |
|                            |                | 36V/8Ah、10Ah     |                                 |              | 10strings    |
|                            |                | 36V/8.8Ah        | Panasonic, 18650                |              | 10strings, 4 |
|                            | Side pull Type | 24V/8Ah、10Ah     | Ternary, Polymer                | 250*100*82mm | 7strings     |
|                            |                | 36V/8Ah、10Ah     |                                 |              | 10strings    |



| Product                                   | Name         | Voltage/Capacity | Batteries Type                  | Size         | Combination     |
|---|--------------|------------------|---------------------------------|--------------|-----------------|
| <b>After the Chair Frame Battery Pack</b> |              |                  |                                 |              |                 |
|   | Dolphin No.2 | 24V/8.5Ah、10Ah   | Ternary,Polymer                 | 430*150*90mm | 7strings        |
|   |              | 36V/8.5Ah、10Ah   |                                 |              | 10strings       |
|   |              | 24V/11Ah         | Panasonic,18650                 |              | 7strings,5      |
|   | Dolphin No.1 | 36V/8.8Ah        | Ternary,Polymer                 | 430*156*66mm | 10strings,4     |
|   |              | 24V/8Ah、10Ah     |                                 |              | 7strings        |
|   |              | 36V/8Ah、10Ah     |                                 |              |                 |
|   |              | 48V/8Ah、10Ah     | Panasonic,18650                 | 450*156*66mm | 13strings       |
|   |              | 24V/11Ah         |                                 |              | 7strings,5      |
|   |              | 36V/8.8Ah        |                                 |              | 10strings,4     |
|   | HaiBao No.2  | 36V/8.8Ah        | Panasonic,18650                 | 402*152*67mm | 12strings       |
|   |              |                  |                                 |              |                 |
|   | Denon No.3   | 36V/8Ah、10Ah     | Ternary,Polymer                 | 380*150*66mm | 10strings       |
|   |              | 48V/8Ah、10Ah     |                                 |              | Panasonic,18650 |
|   |              | 36V/8.8Ah        | Lithium iron phosphate, Polymer |              |                 |
|   |              | 36V/10Ah         |                                 |              | 12strings       |



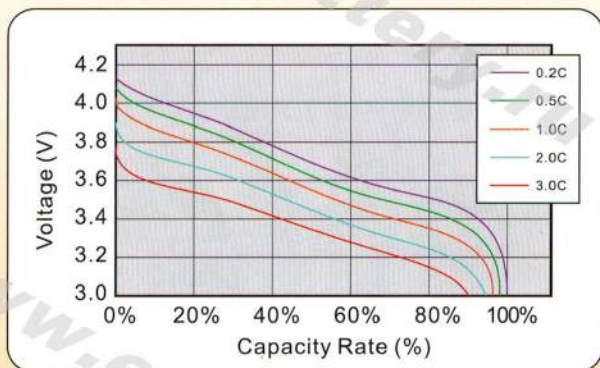
| <b>Other Battery Pack</b> |               |           |                 |               |             |
|---------------------------|---------------|-----------|-----------------|---------------|-------------|
|                           | EMU No.1      | 36V/8.8Ah | Panasonic,18650 | φ91.2*330 mm  | 10strings,4 |
|                           | Frog Type     | 36V/8Ah   | Ternary,Polymer | 255*148*90mm  | 10strings   |
|                           |               | 48V/8Ah   |                 |               | 13strings   |
|                           |               | 24V/11Ah  | Panasonic,18650 |               | 7strings,5  |
|                           |               | 36V/6.6Ah |                 |               | 10strings,3 |
|                           | HaiBao No.1   | 36V/8.8Ah | Panasonic,18650 | 224*120*81 mm | 10strings,4 |
|                           | Built-in Type | 36V/8.5Ah | Ternary,Polymer | 422*72*38 mm  | 10strings   |





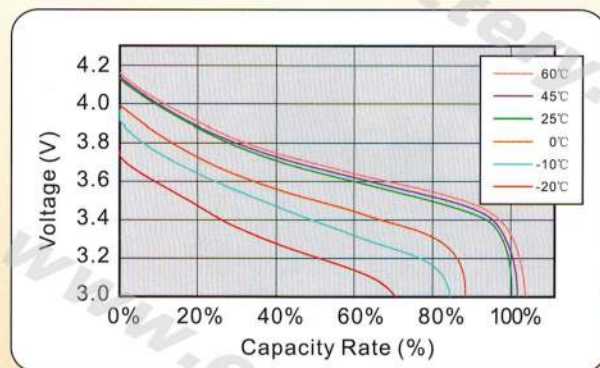
### 1. Discharge Rate Characteristics

Charge: 0.5C, 4.2V, 0.05C Cut-off(CC/CV)  
 Discharge: 0.2C, 0.5C, 1C, 2.0C, 3.0C; 3.0V Cut-off  
 Temperature: 25±3°C



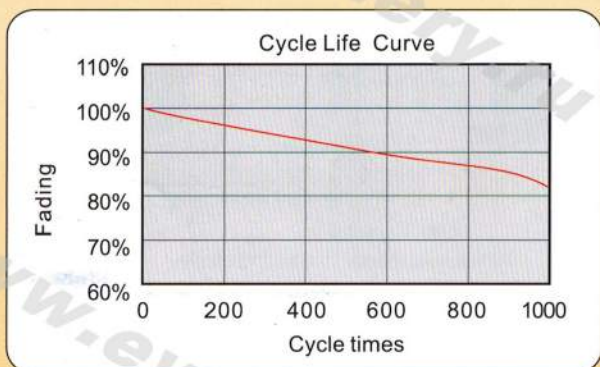
### 2. Discharge Temperature Characteristics

Charge: 0.5C, 4.2V, 0.05C Cut-off(CC/CV)  
 Discharge: 0.2C; 3.0V Cut-off  
 Charge Temperature: 25±3°C



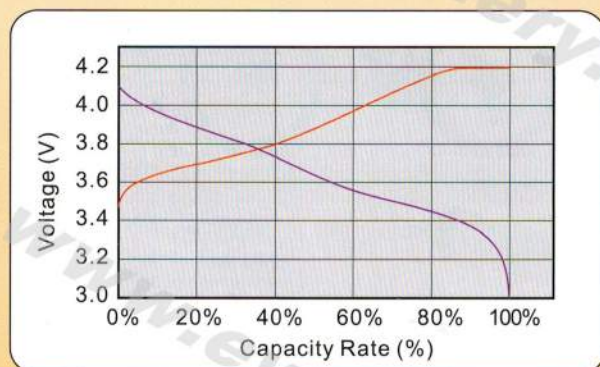
### 3. Cycle Life Characteristics

Charge: 0.5C, 4.2V, 0.05C Cut-off(CC/CV)  
 Discharge: 0.5C, 3.0V Cut-off  
 Temperature: 25±3°C



### 4. Charge & Discharge Characteristics

Charge: 0.5C, 4.2V, 0.05C Cut off(CC/CV);  
 Discharge 0.5C to 3.0V Cut-off(CC).  
 Temperature 25±3°C



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