

2023V2



Phylion E POWER



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**E-BIKE BATTERY EXPERT**

B e t t e r   B a t t e r y   B e t t e r   L i f e

# ABOUT PHYLION

## 20 Years of Experience for the Innovation and Development of Lithium Battery Solutions

Phylion Battery has aimed to develop and provide safe, efficient, and cost-effective batteries for global customers since our company was founded in 2003. With 20 years of industry experience and the support of advanced technology originating from the Physics Research Institute of the Chinese Academy of Sciences, Phylion has grown to become one of the world's leading manufacturers of lithium-ion batteries for LEV&EV in the world.

Phylion batteries are applied as power solutions for E2W, E4W, E3W, energy storage, and more. Over 25 million Phylion LEV batteries and 300 thousand EV batteries have been sold worldwide until now, empowering consumers' enthusiasm and power needs in over 22 countries.

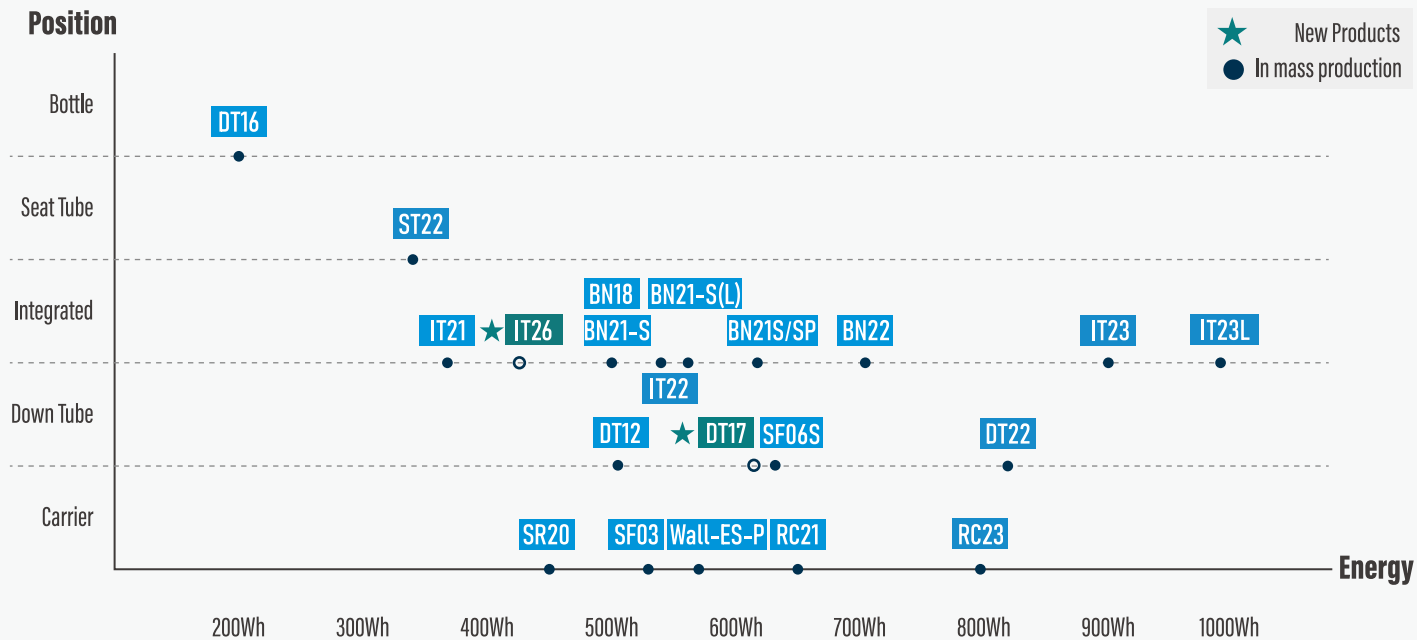


SUZHOU  
PRODUCTION BASE



CHUZHOU  
PRODUCTION BASE

## Phylion E-Bike batteries at a glance



## Compatible With Different E-drive Systems

Phylion's batteries are compatible with most mainstream systems in the market, including Brose, Shimano, Bafang, Oli, and more.



## Phylion Battery, E-BIKE Battery Expert

Phylion Battery focusing on the research, development, and manufacturing of E-bike batteries for 17 years since 2006. We provide innovative products and solutions based on customer requirements and usage scenarios.

Phylion provides various E-bike battery options such as the Intube battery, Frame battery, Seating tube battery, Carrier battery, etc. One of Phylion's main benefits is the ability to customize these options. For more information on Phylion's offerings, please refer to the following pages for public models.

Phylion designed our products with high efficiency and safe for use in mind, we will continue to improve our product in functionality, appearance, and integration with more kinds of vehicles, and provide safer, and more reliable products and cycling experiences for the market and consumers.

## Compatible with 21700 5.8Ah Cell

Improve the Cycling Experience Comprehensively

### Upgraded Massive Capacity

The top-grade 5.8Ah cells are ultra-reliability and safety and provide Phylion batteries more power than before.



### Extended Bike Endurance

More power means longer endurance, allow your consumers get rid of energy anxiety and enjoy more fun of cycling.

### Suitable for More Models

Phylion continues to expand the capacity and types of our batteries to fit more vehicle types and scenarios.



# Integrated Tube

## Battery

### IT21

Pack	10S2P
Cell type	21700
Dimensions	390.5*50*73mm
Nominal Voltage	36V
Nominal Capacity	9.8Ah
Communication	Canbus/Uart
Waterproof Level	IPX7
Weight(Approx.)	<2.3kg
Certification Ready	EN15194:2017

Frame reference

Mode A: Integrated Tube with Removable cover

Mode B: Inner Tube without cover

Aluminum removable battery cover

Frame reference

Good solution for E-Road bike

Good solution for multi-battery E-bike

### IT22

Pack	10S2P	10S3P	13S2P
Cell type	21700		
Dimensions	429.3*68.3*78.2mm		
Nominal Voltage	36V	36V	46.8V
Nominal Capacity	9.8Ah/11.6Ah	14.7Ah/17.4Ah	9.8Ah/11.6Ah
Communication	Canbus/Normal		
Waterproof Level	IPX7		
Weight(Approx.)	<2.9kg	<3.2kg	<2.9kg
Certification Ready	EN15194:2017		

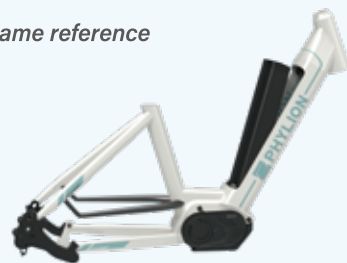
Frame reference

Good solution for E-Trekking bike

## IT23 (L)

Pack	10S3P/4P	10S5P
Cell type	21700	
Dimensions	368.4*75*91.4mm	442*75*91.4mm
Nominal Voltage	36V	
Nominal Capacity	14.7Ah/19.6Ah 17.4Ah/23.2Ah	24.5Ah/29Ah
Communication	Canbus	
Waterproof Level	IPX7	
Weight(Approx.)	< 4kg	< 4.9kg
Certification Ready	EN15194:2017	

Frame reference



Good solution for different E-bike models

## IT26



Pack	10S2P
Cell type	21700
Dimensions	394.6*51.2*72.1mm
Nominal Voltage	36V
Nominal Capacity	11.6Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	2.4kg
Certification Ready	EN15194:2017/EN50604

Frame reference



Good solution for E-Trekking bike



Pack	10S4P
Cell type	18650
Dimensions	429*65*80mm
Nominal Voltage	36V
Nominal Capacity	11.6Ah/14Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	<2.9kg
Assemble and Disassemble	From side/upside
Certification Ready	EN15194:2017

*Slim battery case design*



*Frame reference*

## BN-18



*Good solution for Light city bike*

## BN21-S

Pack	10S4P
Cell type	18650
Dimensions	347*63*85mm
Nominal Voltage	36V
Nominal Capacity	11.6Ah/14Ah
Communication	Canbus/Uart
Waterproof Level	IPX7
Weight(Approx.)	<2.9kg
Certification Ready	EN15194:2017/EN50604

## BN21-S(L)

Pack	10S5P
Cell type	18650
Dimensions	412*63*85mm
Nominal Voltage	36V
Nominal Capacity	11Ah/14.5Ah/17.5Ah
Communication	Canbus/Uart
Waterproof Level	IPX7
Weight(Approx.)	<3.2kg
Certification Ready	EN15194:2017

Frame reference

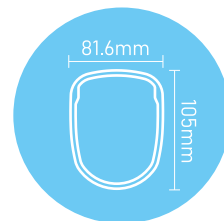


### BN21-S

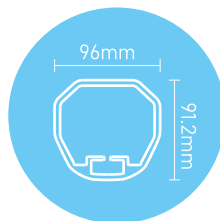
Aluminum removable battery cover



Vertical



Horizontal



Frame Size



Good Solution for  
E-trekking bike/E-City bike/E-MTB

Frame reference



## BN21-SP

Pack	10S2P	10S3P
Cell type	21700	
Dimensions	412*63*85mm	
Nominal Voltage	36V	
Nominal Capacity	9.8Ah/14.7Ah/11.6Ah/17.4Ah	
Communication	Canbus/Uart	
Waterproof Level	IPX7	
Weight(Approx.)	< 3.2kg	
Certification Ready	EN15194:2017	

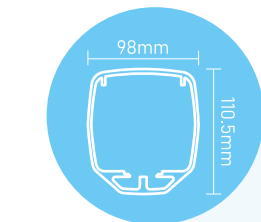


Good solution for different E-bike models



## BN-22

Pack	10S4P	13S3P
Cell type	21700	
Dimensions	374*81*81.5mm	
Nominal Voltage	36V	46.8V
Nominal Capacity	20Ah	15Ah
Communication	Canbus	
Waterproof Level	IPX7	
Weight(Approx.)	< 4kg	
Certification Ready	EN15194:2017/UL2271	



Frame Size



Frame reference



Plastic removable battery cover



## Down Tube

## Battery

### DT16 ( Water Bottle Type )

Pack	10S1P
Cell type	21700
Dimensions	Ø75mm*230mm
Nominal Voltage	36V
Nominal Capacity	4.9Ah/5.8Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	<1.1kg
Certification Ready	EN15194:2017

- Good solution for extendary battery
- Good solution for multiple battery solutions



# Multiple Battery Solutions

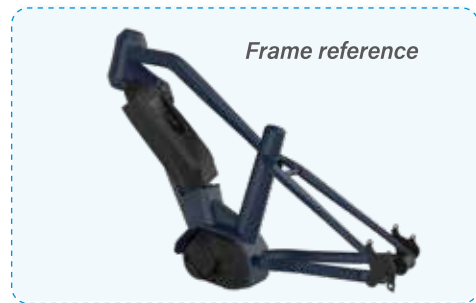


**DT17**

Pack	10S3P
Cell type	21700
Dimensions	335*86*83mm
Nominal Voltage	36V
Nominal Capacity	14.7Ah/17.4Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	3.2/3.3kg
Certification Ready	EN15194:2017



Good solution for different E-bike models



Good solution for different E-bike models

## DT22

Pack	10S3P/4P
Cell type	21700
Dimensions	348.3*94.9*112.5mm
Nominal Voltage	36V
Nominal Capacity	14.7Ah/17.4Ah/19.6Ah/23.2Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	< 4kg
Certification Ready	EN15194:2017



## DT-12

Pack	10S4P
Cell type	18650
Dimensions(Without Docking)	408*78*60mm
Dimensions(With Docking)	VersionA:417*78*74mm VersionB:445*78*74mm
Nominal Voltage	36V
Nominal Capacity	11.6Ah/14Ah
Communication	Canbus/Uart
Waterproof Level	IPX5
Weight(Approx.)	< 2.9kg
Certification Ready	EN15194:2017



## SF-06S

Pack	10S5P	13S4P
Cell type	18650	
Dimensions(Without Docking)	316.5*85*94mm	
Dimensions(With Docking)	VersionA:340*85*101.5mm VersionB:386*85*101.5mm	
Nominal Voltage	36V	46.8V
Nominal Capacity	11Ah/14.5Ah/17.5Ah	11.6Ah/14Ah
Communication	Canbus/Uart	
Waterproof Level	IPX5	
Weight(Approx.)	< 3.3kg	
Certification Ready	EN15194:2017/UL	

# Seat Tube Battery

## ST22

Pack	10S2P
Cell type	21700
Dimensions	423*50.1*70.4mm
Nominal Voltage	36V
Nominal Capacity	9.8Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	2.5kg
Certification Ready	EN15194:2017

Frame reference



Good solution for E-trekking Bike

# Rear Carrier Battery

## RC23

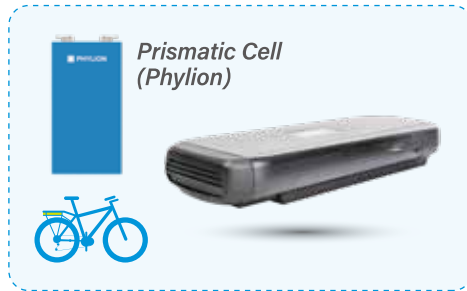
Pack	10S3P/4P
Cell type	21700
Dimensions(Without Docking)	374*143*55mm
Dimensions(With Docking)	450*143*58mm
Nominal Voltage	36V
Nominal Capacity	14.7/19.6Ah/17.4Ah/23.2Ah
Communication	Canbus
Waterproof Level	IPX7
Weight(Approx.)	<3.5kg
Certification Ready	EN15194:2017

Frame reference



Good solution for E-city, E-Trekking & E-cargo





## RC21

Pack	10S5P	13S4P
Cell type	18650	
Dimensions (Without Docking)	401.33*150*46.3mm	
Dimensions (With Docking)	401.33*150*54.2mm	
Nominal Voltage	36V	46.8V
Nominal Capacity	13Ah/14.5Ah	11.6Ah/14Ah
Communication	Standard BMS/Uart	
Waterproof Level	IPX7	
Weight(Approx.)	< 3.2kg	
Certification Ready	EN15194:2017	

## SR-20

Pack	10S4P
Cell type	18650
Dimensions (Without Docking)	357*149*49.5mm
Dimensions (With Docking)	435*149*51mm
Nominal Voltage	36V
Nominal Capacity	11.6Ah/14Ah
Communication	Canbus/Uart
Waterproof Level	IPX5
Weight(Approx.)	< 2.9kg
Certification Ready	EN15194:2017

## SF-03

Pack	10S5P
Cell type	18650
Dimensions (Without Docking)	368*148*62mm
Dimensions (With Docking)	450*148*70mm
Nominal Voltage	36V
Nominal Capacity	14.5Ah/17.5Ah
Communication	Canbus/Uart
Waterproof Level	IPX5
Weight(Approx.)	< 3.2kg
Certification Ready	EN15194:2017

## Wall-ES-P

Pack	10S1P
Cell type	1833
Dimensions (Without Docking)	375*150*64.5mm
Dimensions (With Docking)	445*150*70mm
Nominal Voltage	37V
Nominal Capacity	14Ah
Communication	Canbus/Uart
Waterproof Level	IPX7
Weight(Approx.)	< 4.5kg
Certification Ready	EN15194:2017

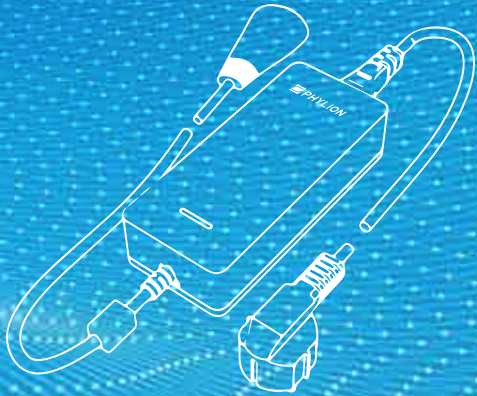
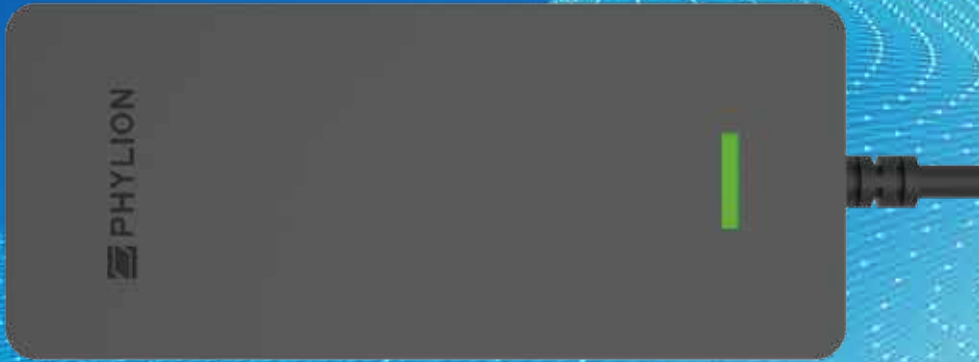
# Smart Charger

## Smart technology to improve charging safety and battery life.

- ▶ Compact casing
- ▶ ID identification to avoid misuse
- ▶ Intelligent charging mode to prolong battery life
- ▶ Nice tooling
- ▶ Early warning of abnormal charging

Output Voltage	36V
Output Current	2A/3A
Dimensions	145*62*33mm
Communication	Canbus/Single
Standard	European standard
Certification Ready	GS/CE/CB

Output Voltage	48V	
Output Current	3A	5A
Dimensions	187*90*46mm	205*102*52mm
Communication	Single	
Standard	European/ American standard	American standard
Certification Ready	UL/CE/GS	UL



Safer

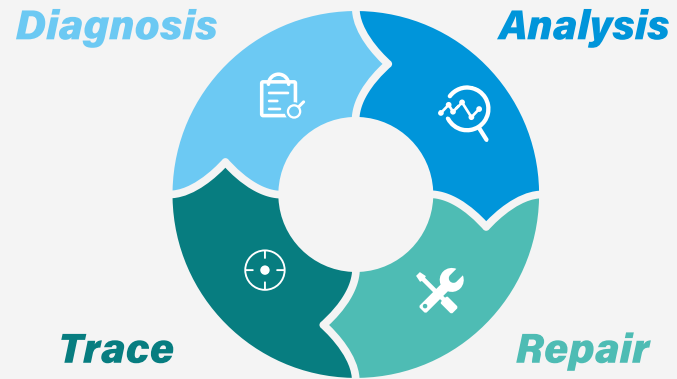
Smarter

Prolong Service Life

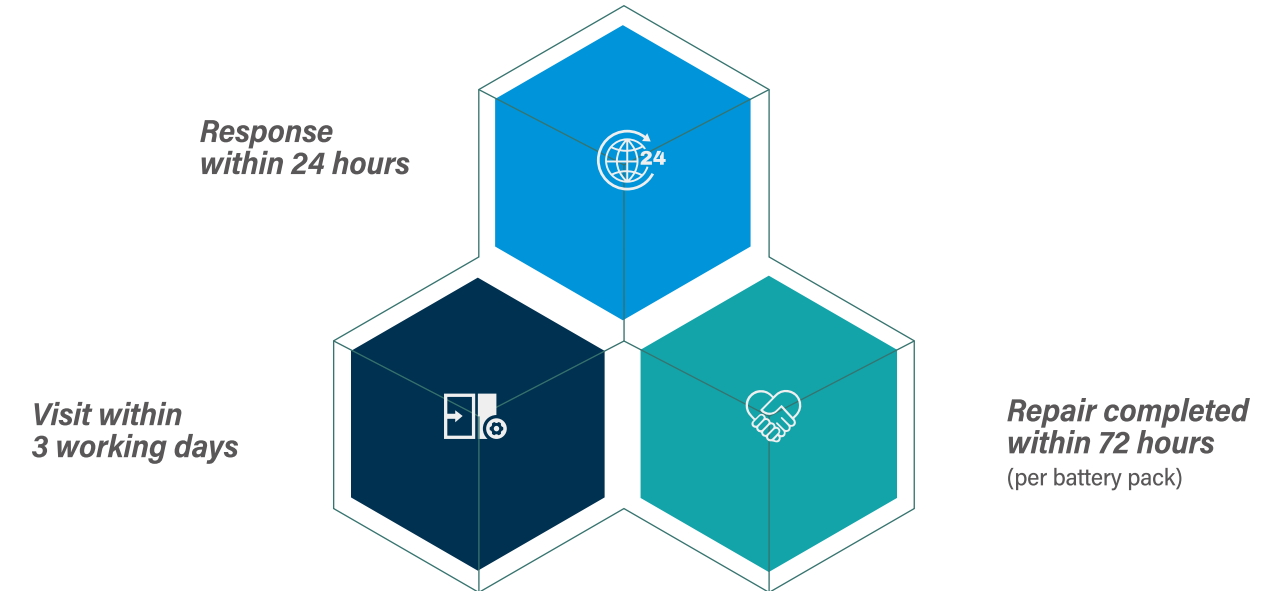
# After-Sales Service

*Phylion's professional after-sales service team has 17 years of experience in providing reliable and customized service to our cooperative E-bike manufacturers and assisting to increase the recognition of the products with our brand operators.*

*Phylion provide regular visit and training for our customers global-widely, to share the latest knowledge of our battery products' information, operation, and maintenance.*



# Faster Service & Support



# GLOBAL BUSINESS

Sales volume of EV battery  
Over **300,000** Sets

Sales volume of LEV battery  
Over **25,000,000** Sets

Our products have been verified in the market  
Over **19** Years

Data by Q4 , 2022

