



ELECTRIC BICYCLES



ELECTRIC BICYCLES BATTERY



ODM Series - Water Bottle Type Battery Pack

Tube A: Ø 66 mm

24V

Mode No.: KL2431
Normal Capacity: 6.6Ah - 8.7Ah
Size: Ø 66 x 289H mm

36V

Mode No.: KL3631
Normal Capacity: 4.4Ah - 5.8Ah
Size: Ø 66 x 289H mm

24V

Mode No.: KL2430
Normal Capacity: 4.4Ah - 5.8Ah
Size: Ø 66 x 220H mm

Tube B: Ø 81.5 mm

24V

Mode No.: KL2427
Normal Capacity: 8.8Ah - 11.6Ah
Size: Ø 81.5 x 289H mm

36V

Mode No.: KL3627
Normal Capacity: 6.6Ah - 8.7Ah
Size: Ø 81.5 x 289H mm

24V

Mode No.: KL2426
Normal Capacity: 6.6Ah - 8.7Ah
Size: Ø 81.5 x 220H mm

36V

Mode No.: KL3626
Normal Capacity: 4.4Ah - 5.8Ah
Size: Ø 81.5 x 220H mm



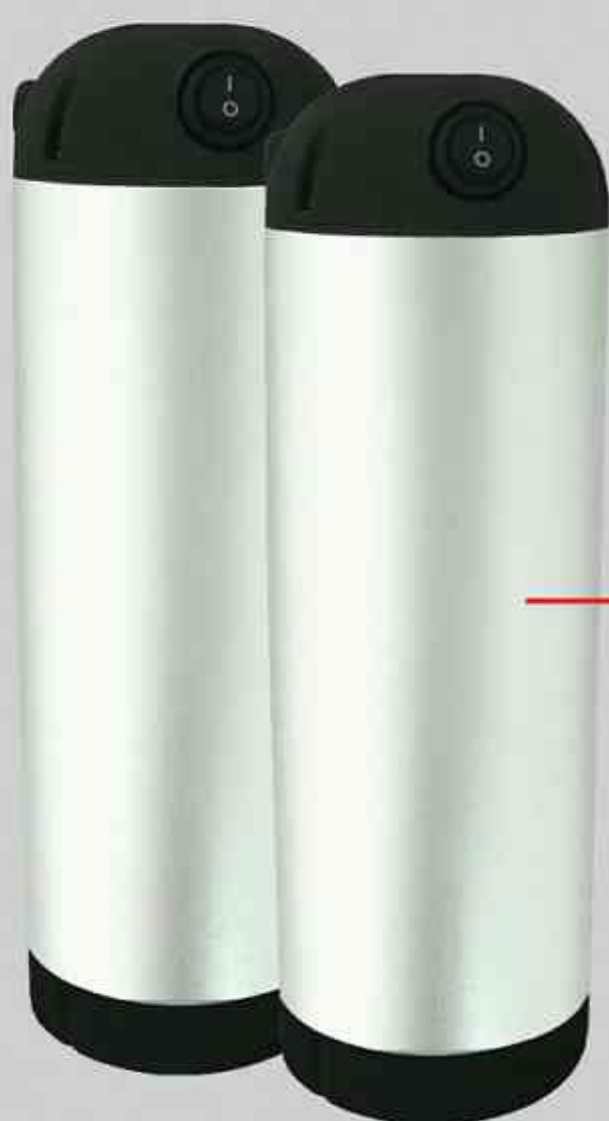
Tube C: Ø 91.8 mm

24V

Normal Capacity: 13.2Ah - 17.4Ah
Size: Ø 91.8 x 289H mm

36V

Normal Capacity: 8.8Ah - 11.6Ah
Size: Ø 91.8 x 289H mm



Accessories:

TWO Battery Holder Types Available

Option A:
Classic Battery
Holder



Option B:
Simple Slide in Design



Simple design for
easy installation



Option B



ODM Series - Rear Carrier Battery Pack



Aluminum Case



24V

Model No.: KL2493
 Normal Voltage: 24V
 Normal Capacity: 8.8Ah - 11.6Ah
 Weight: 2.45 Kg
 Size: 151L x 53W x 291H mm

36V

Model No.: KL3693
 Normal Voltage: 36V
 Normal Capacity: 8.8Ah - 11.6Ah
 Weight: 3.05 Kg
 Size: 151L x 53W x 365H mm

36V

Model No.: KL3661
 Normal Voltage: 36V
 Normal Capacity: 6.6Ah - 8.7Ah
 Weight: 2.65 Kg
 Size: 151L x 53W x 365H mm



• Available in different Battery Bases



Standard
 Size: 150L x 60W x 53H mm



Option A
 Size: 150L x 143W x 53H mm



Option B
 Size: 150L x 107W x 79H mm



24V

Model No.: KL2494
 Normal Voltage: 24V
 Normal Capacity: 8.8Ah - 11.6Ah
 Weight: 1.77 Kg
 Size: 148L x 56W x 249H mm

36V

Model No.: KL3692
 Normal Voltage: 36V
 Normal Capacity: 8.8Ah - 11.6Ah
 Weight: 2.4 Kg
 Size: 148L x 56W x 321H mm

36V

Model No.: KL3694
 Normal Voltage: 36V
 Normal Capacity: 6.6Ah - 8.7Ah
 Weight: 1.85 Kg
 Size: 148L x 56W x 249H mm

36V

Model No.: KL3679
 Normal Voltage: 36V
 Normal Capacity: 6.6Ah - 8.7Ah
 Weight: 1.85 Kg
 Size: 148L x 56W x 249H mm

ABS Plastic Case



KL2494

KL3679

Rear Light

• Available in Different Battery Bases

Standard
 245L x 148W x 60H mm



Option A
 294L x 148W x 74H mm



Extra space for motor controller

Option B
 294L x 148W x 94H mm



Battery pack have different Colors and Sizes



Black

Gray





ODM Series - Multi-fit Battery Pack

24V

Model No.: KL2499
Normal Voltage: 24V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 1.72 Kg
Casing: ABS Plastic
Size: 110L x 75W x 175H mm



36V

Model No.: KL3691
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.33 Kg
Casing: ABS Plastic
Size: 123L x 92W x 180H mm



36V

Model No.: KL3632
Normal Voltage: 36V
Normal Capacity: 6.75Ah - 8.7Ah
Weight: 1.88 Kg
Casing: ABS Plastic
Size: 110L x 75W x 213H mm



36V

Model No.: KL3699
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.4 Kg
Casing: ABS Plastic
Size: 110L x 75W x 245H mm



Connection options: Clipping & Welding



Features: Welding on any part of the bike frame

ODM Series - Handy Carry Battery Pack

Features:

- Strong and Portable Casing - Aluminum Tube with ABS Plastic Cover
- Designed with Aluminum Rail and Battery Base Socket to ensure quick and proper battery installation



Aluminum Rail



24V

Model No.: KL2497
Normal Voltage: 24V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.0 Kg
Casing: Aluminum
Size: 89L x 87W x 232H mm

36V

Model No.: KL3615
Normal Voltage: 36V
Normal Capacity: 11.0Ah - 14.5Ah
Weight: 3.25 Kg
Casing: Aluminum
Size: 89L x 87W x 347H mm



36V

Model No.: KL3697
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.66 Kg
Casing: Aluminum
Size: 89L x 87W x 289H mm

48V

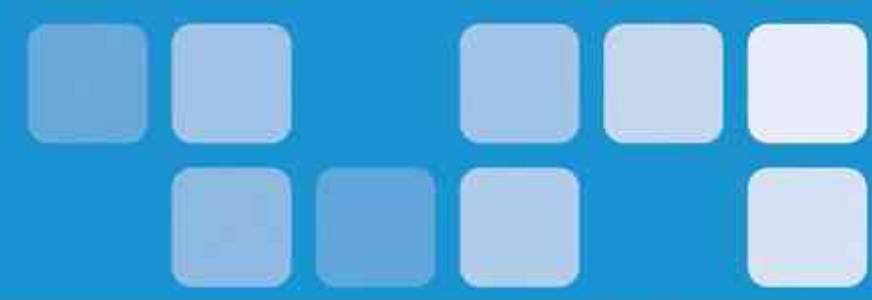
Model No.: KL4805
Normal Voltage: 48V
Normal Capacity: 11.0Ah - 14.5Ah
Weight: 4.09 Kg
Casing: Aluminum
Size: 93L x 90W x 420H mm

48V

Model No.: KL4806
Normal Voltage: 48V
Normal Capacity: 13.2Ah - 17.4Ah
Weight: 4.69 Kg
Casing: Aluminum
Size: 111L x 87W x 484H mm



Battery Base Socket



ODM Series - Handy Carry Battery Pack

e-Bike Battery Illustration

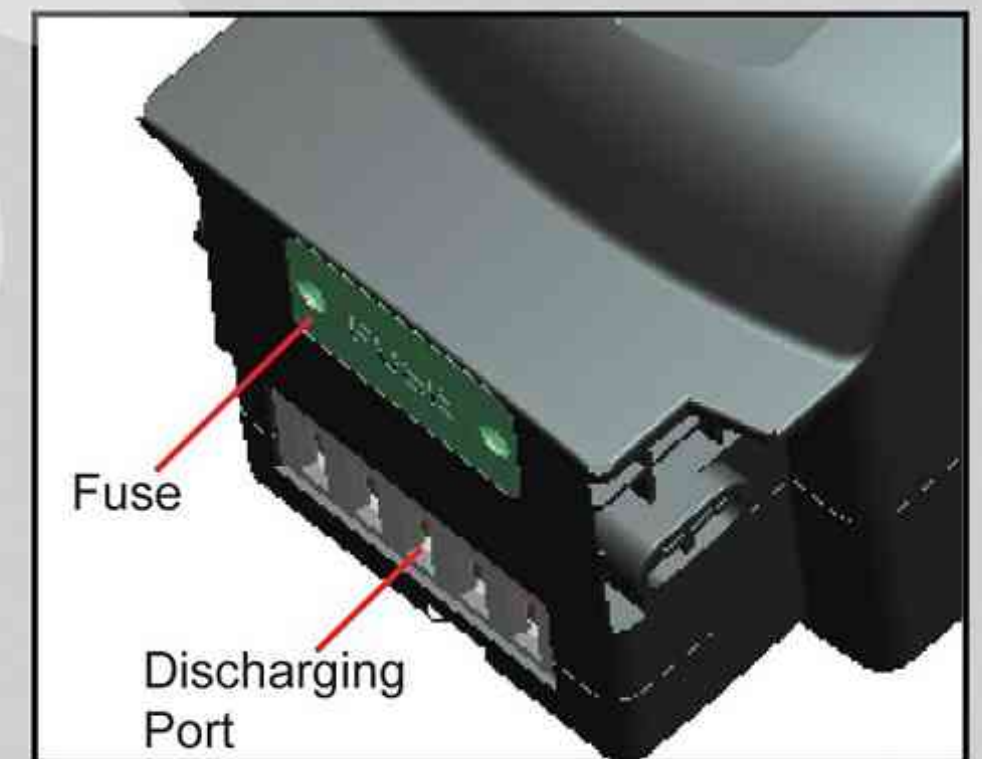
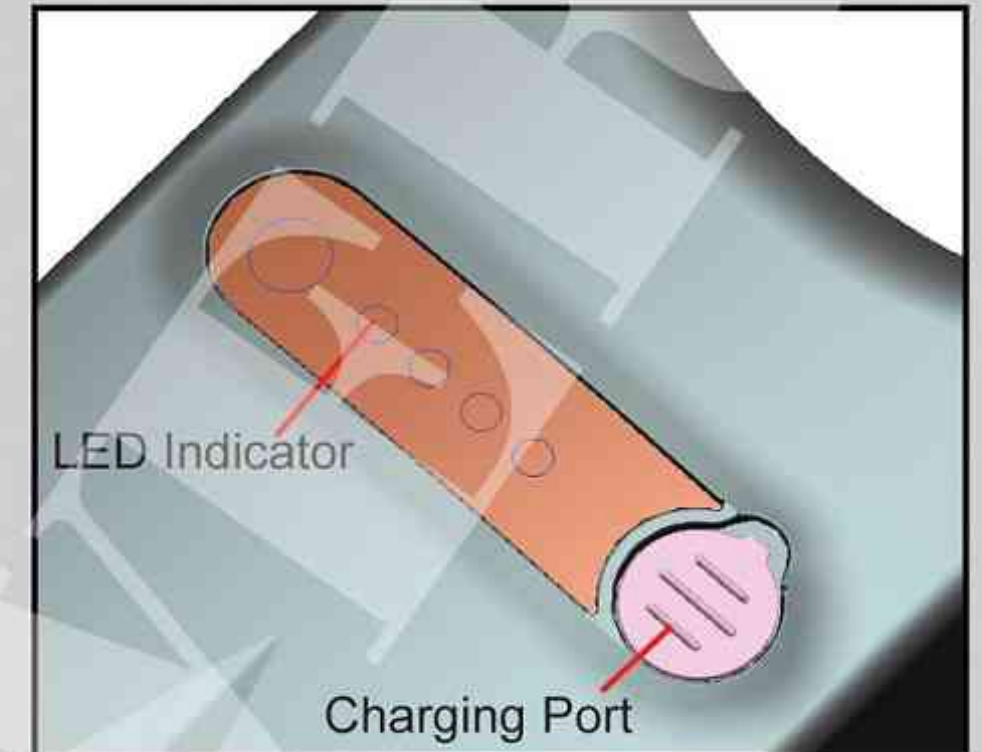
Front View



Back View



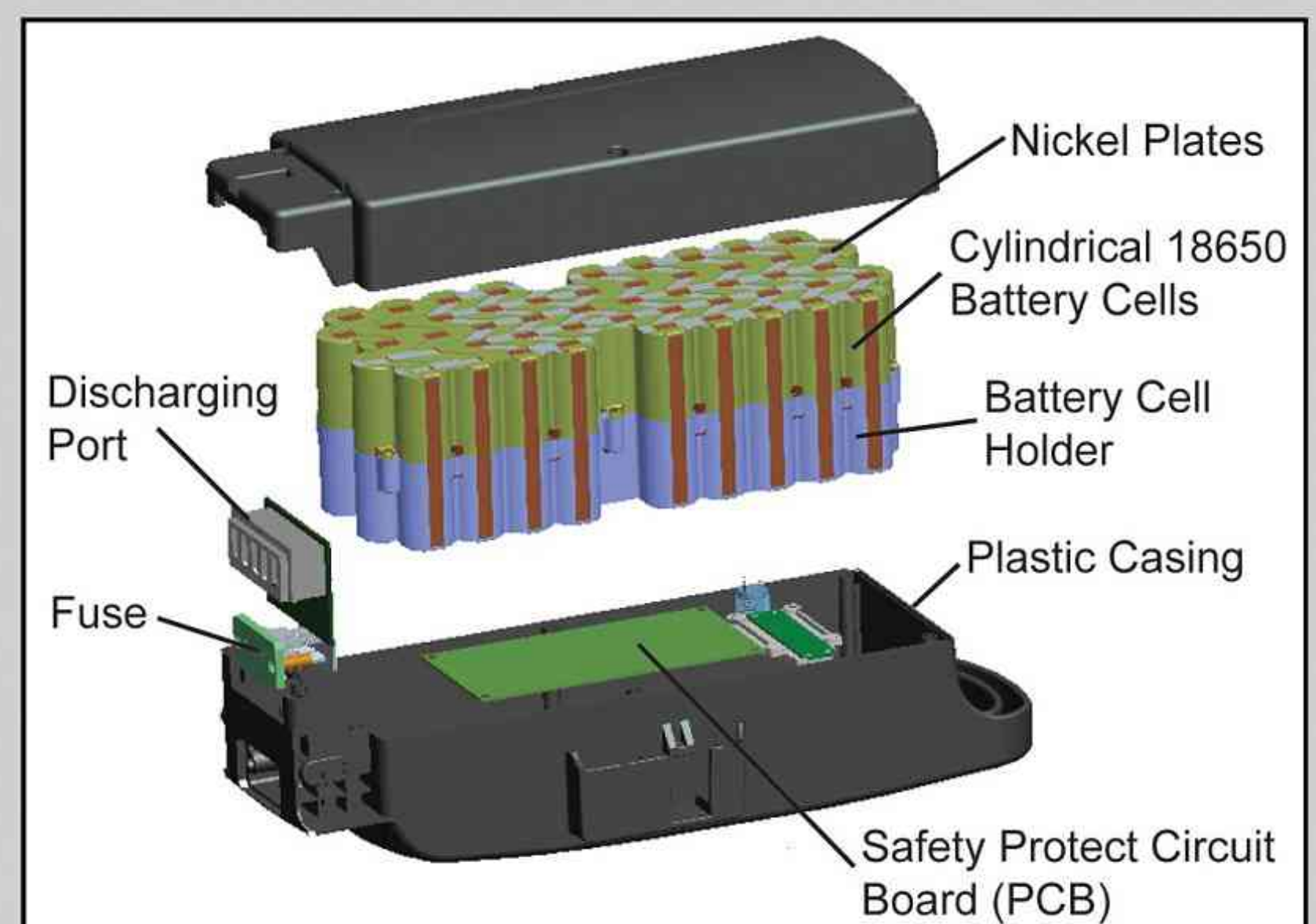
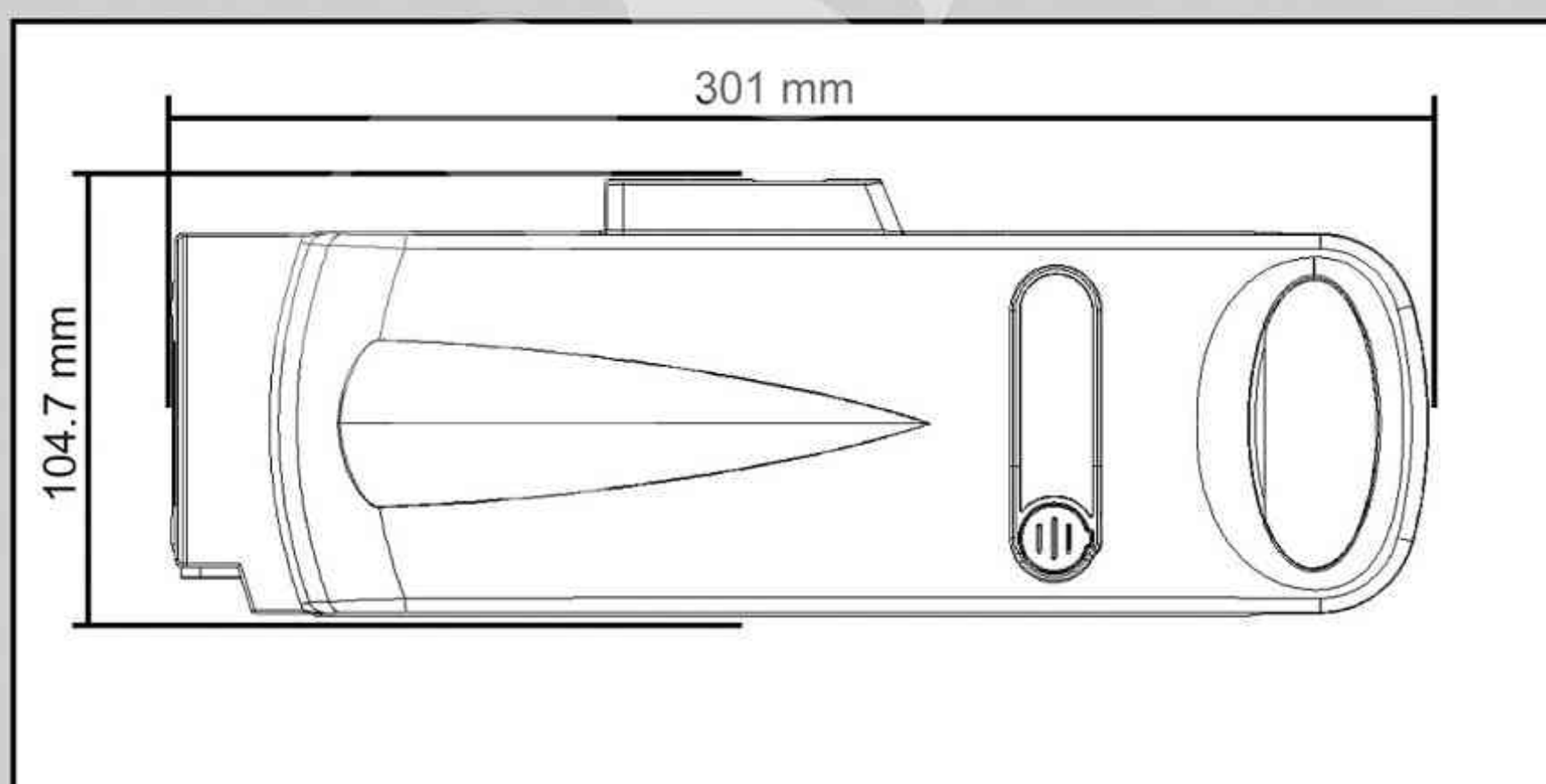
KLH24S65B.082
(24V / 11.25Ah)



Specification

Configuration	Voltage	Capacity	Dimension
7S3P	24V	6.6Ah ~ 8.7Ah	301L * 104.7W mm
7S4P		8.8Ah ~ 11.6Ah	
7S5P		11.0Ah ~ 14.5Ah	
7S6P		13.2Ah ~ 17.4Ah	
7S7P		15.4Ah ~ 20.3Ah	

Exploded View Drawing





Compatible Series Battery Pack



Water Bottle Type

36V

Model No.: KL3645
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.53 Kg
Casing: Aluminum Tube
Size: Ø 96 x 312H mm

36V

Model No.: KL3622
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.53 Kg
Casing: Aluminum Tube
Size: Ø 96 x 325H mm



Battery Base



Charging port with protective cover



LED Power Indicator



Little Frog Type



24V

Model No.: KL2407
Normal Voltage: 24V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 1.82 Kg
Size: 241L x 143W x 85H mm

36V

Model No.: KL3607
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.32 Kg
Size: 241L x 143W x 85H mm

Rear carrier Type

KL3618

24V

Model No.: KL2408
Normal Voltage: 24V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.62 Kg
Size: 397L x 150W x 76H mm



KL2408

36V

Model No.: KL3617
Normal Voltage: 36V
Normal Capacity: 11.0Ah - 14.5Ah
Weight: 3.79 Kg
Size: 410L x 151W x 66H mm

36V

Model No.: KL3618
Normal Voltage: 36V
Normal Capacity: 13.2Ah - 17.4Ah
Weight: 4.18 Kg
Size: 410L x 151W x 66H mm



Different Types of Discharging Port



Charging port & Power Switch

36V

Model No.: KL3612
Normal Voltage: 36V
Normal Capacity: 15.4Ah - 20.3Ah
Weight: 4.8 Kg
Size: 110L x 78W x 390H mm



Aluminum Case

36V

Model No.: KL3608
Normal Voltage: 36V
Normal Capacity: 8.8Ah - 11.6Ah
Weight: 2.79 Kg
Size: 90L x 92W x 385H mm

Electric Bicycle Accessories

LCD Panel



With the built-in fuel gauge, data and performance of the e-Bike battery, like power available, voltage, temperature and total number of cycles would be captured and shown on the LCD panel.



Current Speed (in Km/h or MPH)

Current Battery Capacity

Battery Fully Charged

Low Battery Alarm (Battery status bar flashed)

Battery Empty

Current Battery Voltage

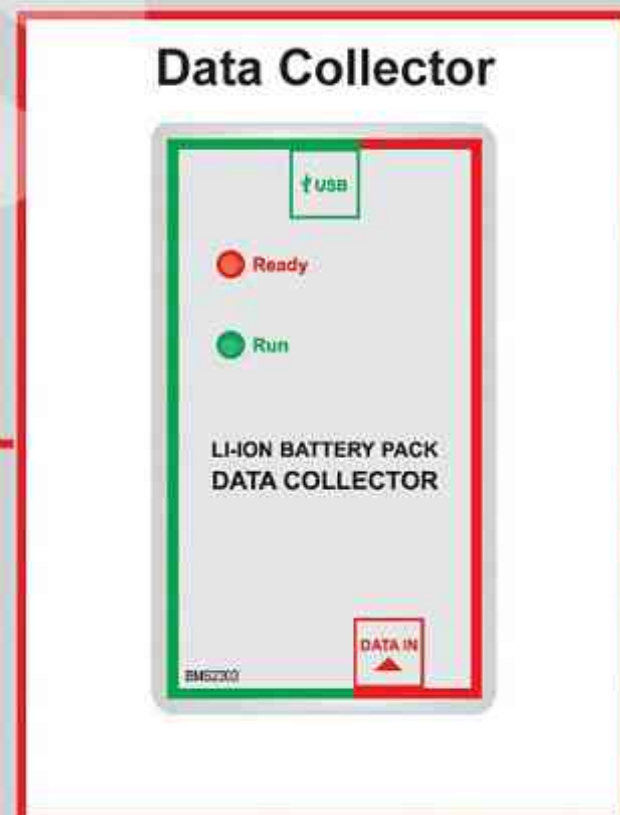
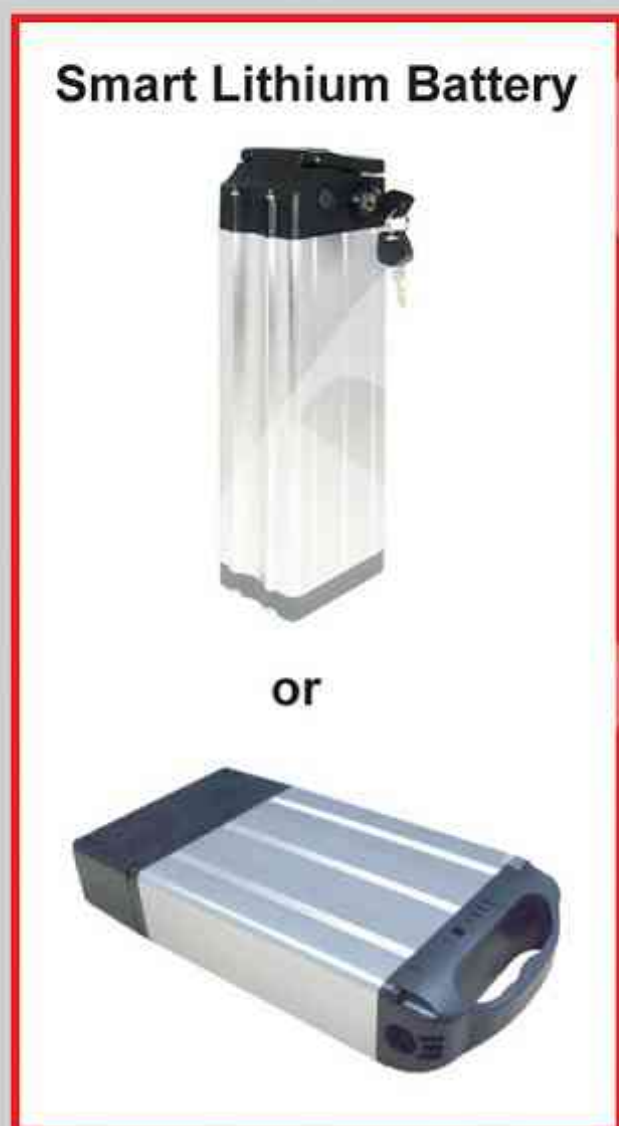
Current Battery Temperature

Total Number of Cycles

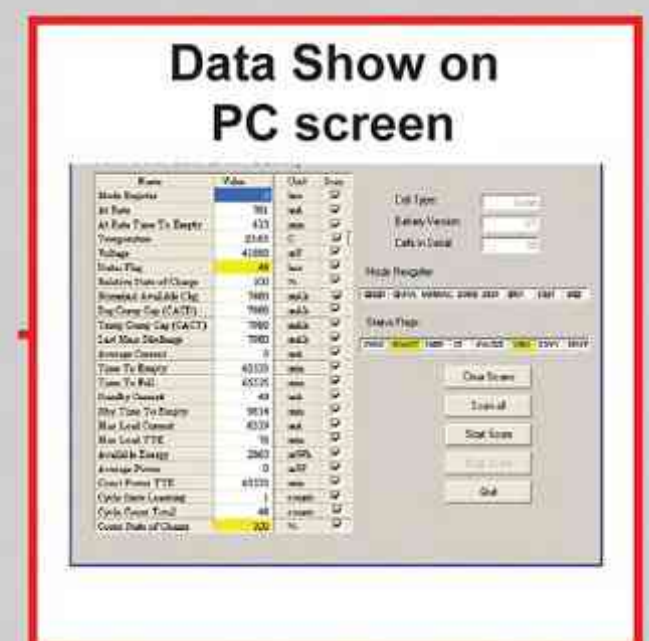
Battery Error

Data Collecting System

Designed specifically for engineering test, user can collect the battery data with **LI-ION BATTERY DATA COLLECTOR** or **LCD PANEL** and all the battery data will show on the screen.



Read by Computer



Read by LCD Panel





Electric Bicycle Accessories

Battery Charger

60W Charger



Choice of 6 Different DC Output Plug Specifications



Model: ACK4201N (36V)
ACK2804N (24V)
AC Input: 100 - 240V, 47 - 63Hz
DC Output: 24 - 42V, 1.35 / 1.5A
Power: Max. 60W
Dimension: 115L x 58W x 31H mm
Certification: CE, UL, GS

Model: C060L1001 (36V)
C060L0701 (24V)
AC Input: 100 - 240V, 47 - 63Hz
DC Output: 24 - 42V, 1.35 / 1.5A
Power: Max. 60W
Dimension: 115L x 58W x 31H mm
Certification: CE, FCC

100W Charger



Model: CP100L1002 (36V)
CP100L0702 (24V)
AC Input: 100 - 240V, 47 - 63Hz
DC Output: 24V - 56V, 2 - 5A
Power: Max. 100W
Dimension: 170L x 65W x 38.5H mm
Certification: CE, FCC
Features: With Power Factor Correction built-in

Choice of 7 Different DC Output Plug Specifications



200W Charger



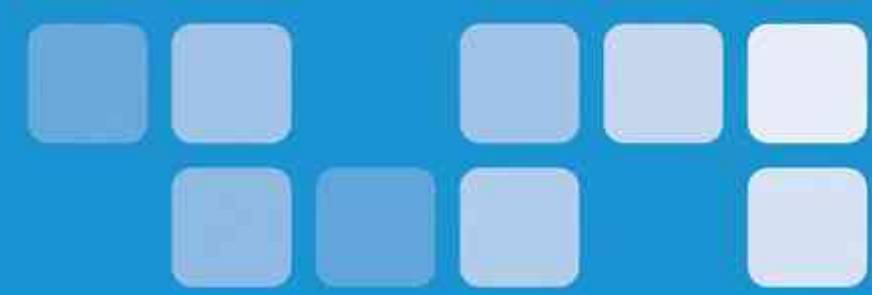
Model: CP200
AC Input: 100 - 240V, 50 - 60Hz
DC Output: 14.4 - 57.5V, 3.5 - 10A
Power: Max. 200W
Dimension: 203L x 135W x 75.5H mm
Certification: CE, CCC
Features: With Power Factor Correction built-in

Choice of 3 Different DC Output Plug Specifications

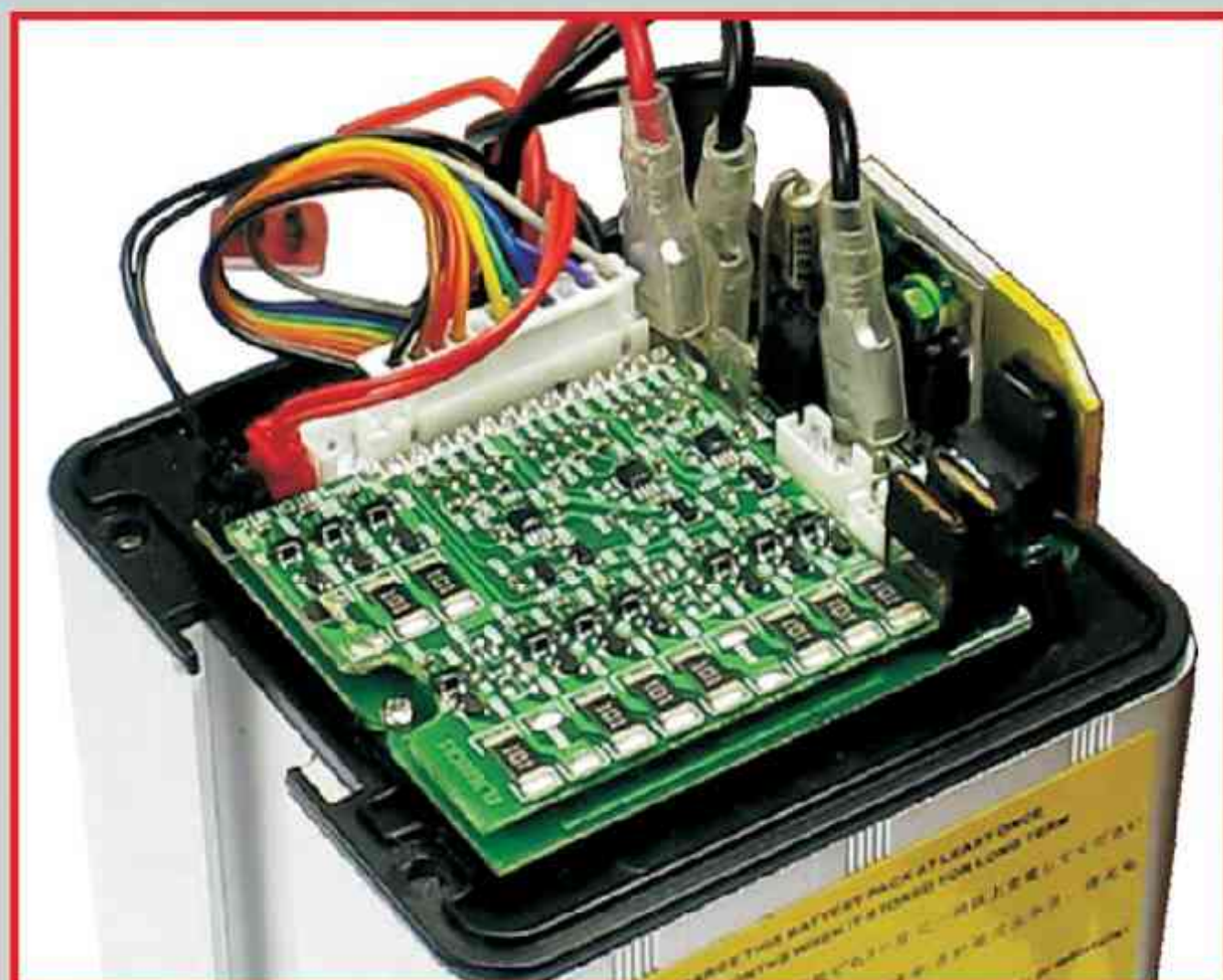


Choice of 7 Different AC Input Plug Specifications for Chargers :





Li-ion Battery Pack Featuring Reliable Designs



1. Intelligence Protection Circuit Module

- Cell Balancing
- Over Charge
- Over Discharge
- Over Current Protection
- Secondary Protection
- Temperature Protection

2. Discharge Current

- Two max. discharge current settings available

3. Build-in Gas Gauge IC

- The protection circuit board build-in Gas Gauge IC monitors battery status and enables data output to various accessories such as the LCD panel. (Gas Gauge IC outputs data in HDQ format)

4. Automatic Sleep Mode:

Sleep mode shuts off automatically to prevent battery pack from discharging completely during prolonged storage or inactivity.

• Option A:

If the battery is activated for more than **16 hours***, the battery circuit will automatically turn off the pack output.

• Option B:

If the battery is not used (under 4A output) for more than **16 hours***, the battery circuit will automatically turn off the pack output.

* Sleep mode activation time may adjust according to client's request.



KL36PS92



Switch Button Cancelled

KL3692



Switch Button



Battery Discharge Current Specification

High discharge current is also available according to various specification in the market, for batteries to suit your vehicle at best.

High Discharge Current Version

Fitting Product Model Code: KLHxxxx/KLHxxSxx/KLxxHxx/KLxxHSxx							
Cell Brand	Cell Model	Cell Code	Configuration	Capacity (Ah)	Maximum discharge current		
					continue	10mins	5s
Panasonic	CGR18650CH	802	2P	4.5	10A	13A	18A
			3P	6.75	13A	15A	25A
			4P or above	≥ 9	15A	18A	35A
	NCR18650PD	809	2P	5.8	10A	13A	18A
			3P	8.7	13A	15A	25A
			4P or above	≥ 8.7	15A	18A	35A
	CGR18650CG	082	3P	6.75	10A	13A	25A
			4P or above	≥ 9	15A	18A	35A
NCR18650	089	3P	8.7	10A	13A	18A	
		4P or above	>8.7	15A	18A	35A	
YLE	INR18650A220	083	3P	6.6	10A	13A	18A
			4P or above	≥ 8.8	15A	18A	35A
	ICR18650A240	085	3P	7.2	10A	13A	18A
			4P or above	≥ 9.6	15A	18A	35A
Samsung	ICR18650-26F	806	3P	7.8	10A	13A	18A
			4P or above	>10.4	15A	18A	35A

Remark: Maximum discharge current values subject to change. Please refer to their respective specification sheets for the most updated details.

Extra Information: KL Product Model Code Structure

• Standard Discharge Current Version

e.g. KL24S99B.082

KL	24	S	99	B	.082
↓	↓	↓	↓	↓	↓
KL = E-bike battery	24 = Voltage	S = Build in Gas Gauge IC	99 = Serial No.	B = Black Colour	082 = Cell Code

• High Discharge Current Version

e.g. KL36HS92G.089

KL	36	H	S	92	G	.089
↓	↓	↓	↓	↓	↓	↓
KL = E-bike battery	36 = Voltage	H = High Discharge Current	S = Build in Gas Gauge IC	92 = Serial No.	G = Gery Colour	089 = Cell Code

• High Discharge & High Charge Current Version (uses 200W Charger)

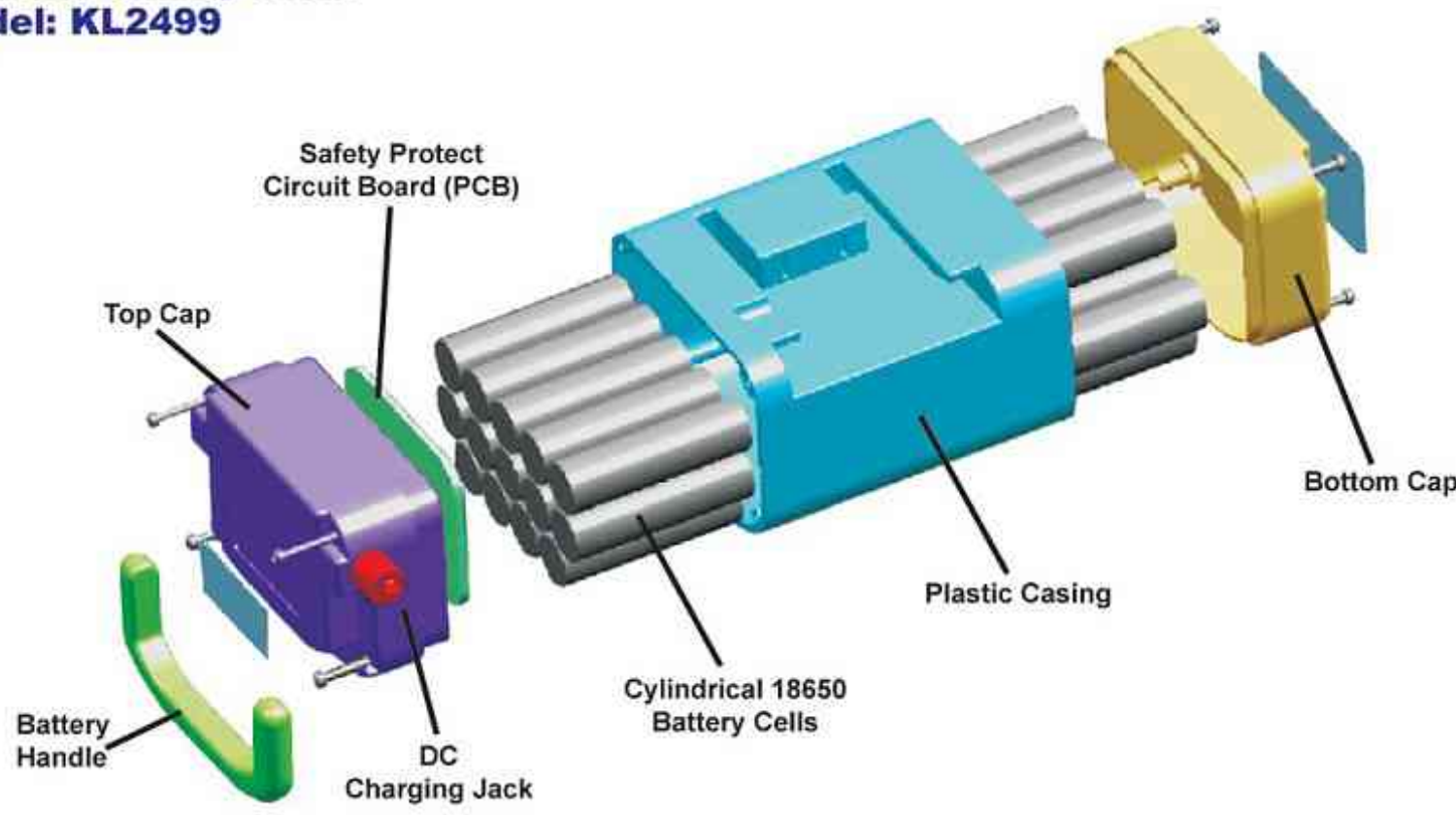
e.g. KLH48S05S.083

KL	H	48	S	05	S	.083
↓	↓	↓	↓	↓	↓	↓
KL = E-bike battery	H = High Discharge Current & High Charge Current	48 = Voltage	S = Build in Gas Gauge IC	05 = Serial No.	S = Silver Colour	083 = Cell Code

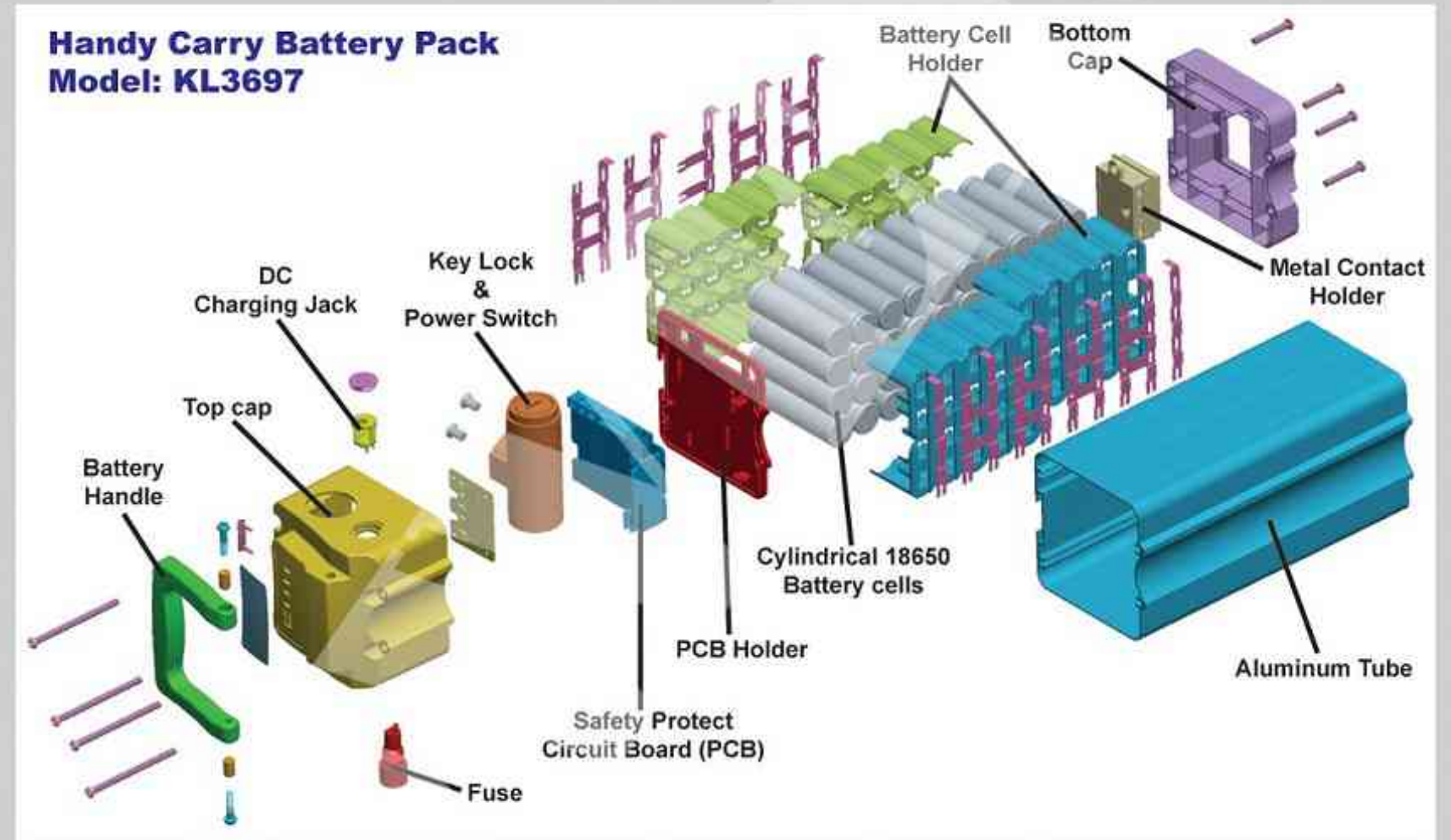
Exploded View Drawing

• Electric Bicycle Battery Built with Cylindrical Battery Cells

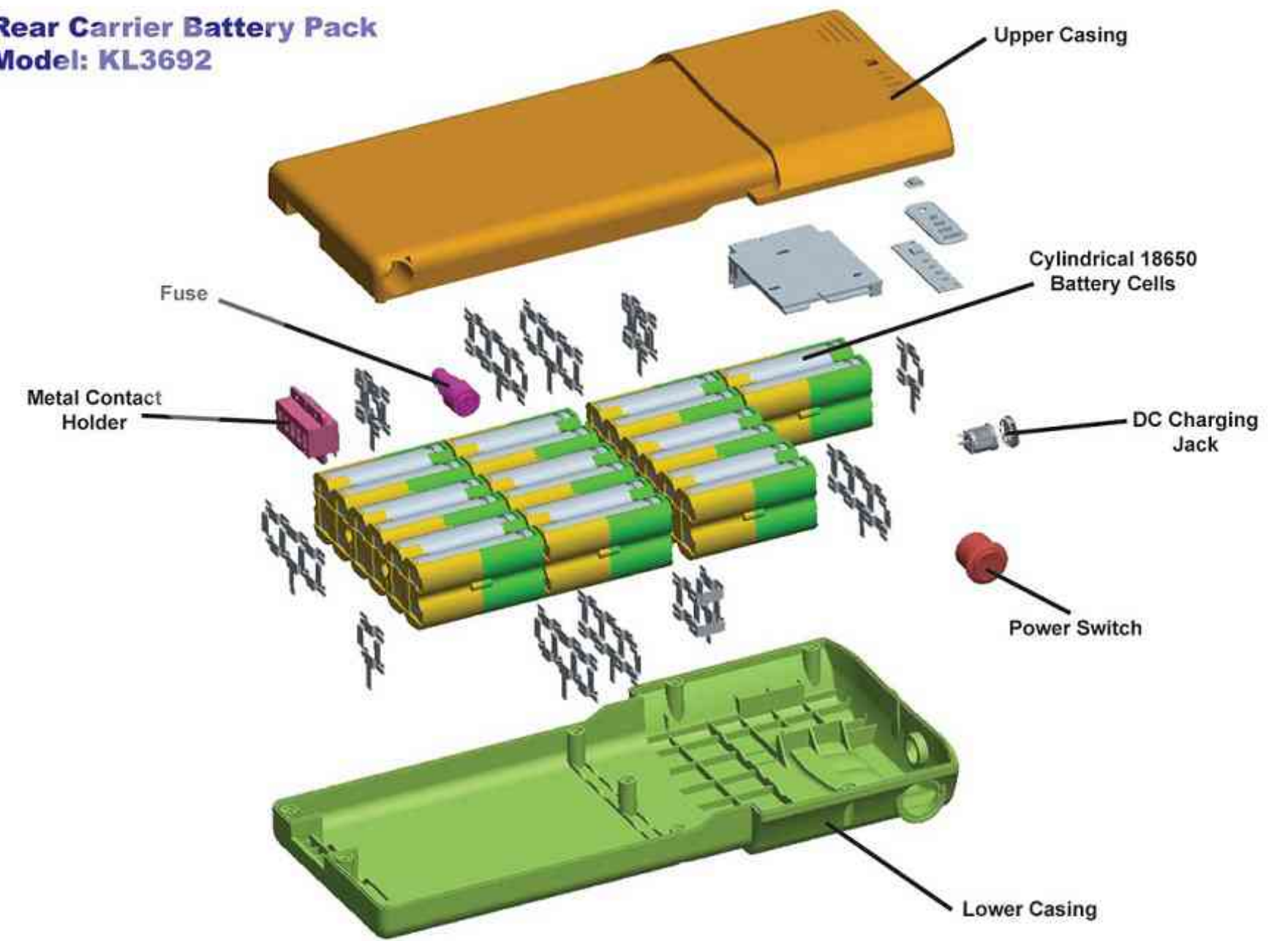
Multi-fit Battery Pack
Model: KL2499



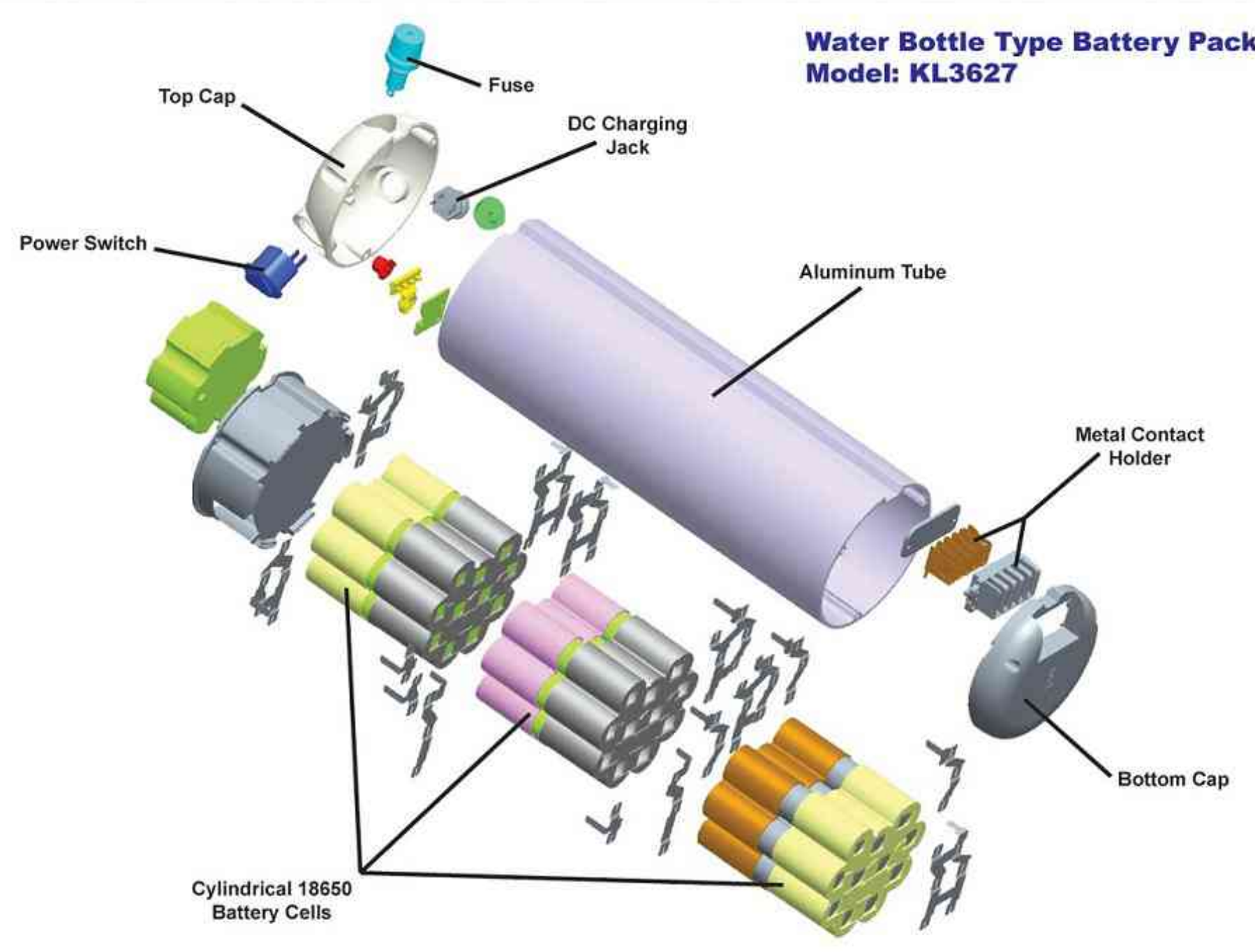
Handy Carry Battery Pack
Model: KL3697



Rear Carrier Battery Pack
Model: KL3692



Water Bottle Type Battery Pack
Model: KL3627



Brand: Panasonic
Mode No.: CGR18650CG
Voltage: 3.6V
Capacity: 2250mAh
Dimension: Ø18.6 x 65.2 mm



Brand: Panasonic
Mode No.: NCR18650
Voltage: 3.6V
Capacity: 2900mAh
Dimension: Ø18.6 x 65.2 mm



Brand: YLE
Mode No.: INR18650A220
Voltage: 3.6V
Capacity: 2200mAh
Dimension: Ø18.3 x 65.2 mm



Brand: YLE
Mode No.: ICR18650A240
Voltage: 3.7V
Capacity: 2400mAh
Dimension: Ø18.3 x 65.2 mm