



#### **ODM Series - Water Bottle Battery Pack**



#### Tube A: Ø 66 mm

Mode No.: KL2430 Configuration: 7S2P Normal Capacity: 4.4Ah - 6.8Ah

Weight: 0.99 Kg Size: Ø 66 x 220H mm

Mode No.: KL2431 Configuration: 7S3P

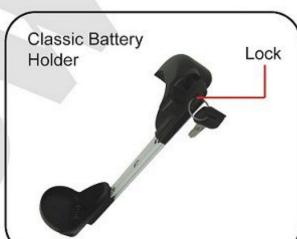
Normal Capacity: 6.6Ah - 10.2Ah

Weight: 1.43 Kg Size: Ø 66 x 289H mm

Mode No.: KL3631 Configuration: 10S2P

Normal Capacity: 4.4Ah - 6.8Ah

Weight: 1.38 Kg Size: Ø 66 x 289H mm







#### Tube B: Ø 81.5 mm

Mode No.: KL2426 Configuration: 7S3P Normal Capacity: 6.6Ah - 10.2Ah

Weight: 1.39 Kg Size: Ø 81.5 x 220H mm

Mode No.: KL2427 Configuration: 7S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 1.81 Kg Size: Ø 81.5 x 289H mm

Mode No.: KL3626 Configuration: 10S2P

Weight: 1.33 Kg Size: Ø 81.5 x 220H mm

Mode No.:KL3627 Configuration: 10S3P

Normal Capacity: 6.6Ah - 10.2Ah

Weight: 1.76 Kg Size: Ø 81.5 x 289H mm



#### **ODM Series - Water Bottle Battery Pack**



Tube C: Ø 92 mm

Model No.: -----Configuration: 7S6P

Normal Capacity: 13.2Ah - 20.4Ah

Weight: ~2.75 Kg Size: Ø 91.8 x 289H mm

Model No.: KL36H55 Configuration: 10S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: ~2.34 Kg Size: Ø 91.8 x 289H mm

> Compatible for IXLEGER
> Allow IID @ communication function

• Two Battery Holder Types Available







Removable connection wire





Tube D: Ø 85 mm

Mode No.: KL42H03 Configuration: 12S3P Normal Capacity: 6.6Ah - 10.2Ah

Weight: ~2.21 Kg

Size: Ø 85 x 285H mm







Simple design for easy installation



# YEAR Warranty

### **ODM Series - Multi-fit Battery Pack**



## 24V

Model No.: KL2499 Configuration: 7S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 1.72 Kg Casing: ABS Plastic

Size: 110L x 75W x 175H mm



## 36V

Model No.: KL3691 Configuration: 10S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.33 Kg Casing: ABS Plastic

Size: 123L x 92W x 180H mm



## 36V

Model No.: KL3632 Configuration: 10S3P

Normal Capacity: 6.75Ah - 10.2Ah

Weight: 1.88 Kg Casing: ABS Plastic

Size: 110L x 75W x 213H mm



### 36V

Model No.: KL3699 Configuration: 10S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.4 Kg Casing: ABS Plastic

Size: 110L x 75W x 245H mm









# Warranty

**ABS Plastic Case** 

#### **ODM Series - Rear Carrier Battery Pack**



Model No.: KL2494 Configuration: 7S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 1.77 Kg

Size: 148L x 56W x 249H mm

36V

Model No.: KL3692 Configuration: 10S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.4 Kg

Size: 148L x 56W x 321H mm





Model No.: KL3694 Configuration: 10S3P

Normal Capacity: 6.6Ah - 10.2Ah

Weight: 1.85 Kg

Size: 148L x 56W x 249H mm



KL3692



Available in Different Battery Bases

Standard 245L x 148W x 60H mm (without controller space)



Option A 294L x 148W x 74H mm (Small controller space)





Option B 294L x 148W x 94H mm (Bigger controller space)



Customized Rear Light Version

Standard Version (without Rear Light)





### **ODM Series - Rear Carrier Battery Pack**



24V

Model No.: KL2495 Configuration: 7S5P

Normal Capacity: 11.0Ah - 17.0Ah

Weight: 2.5 Kg

Size: 151L x 53W x 365H mm

36V

Model No.: KL3661 Configuration: 10S3P Normal Capacity: 6.6Ah - 10.2Ah

Weight: 2.65 Kg

Size: 151L x 53W x 365H mm

36V

Model No.: KL3693 Configuration: 10S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 3.05 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

# Warranty.

#### **ODM Series - Handy Carry Battery Pack**

**24V** 

Model No.: KL2497 Configuration: 7S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.0 Kg

Size: 89L x 87W x 232H mm

36V

Model No.: KL3615 Configuration: 10S5P

Normal Capacity: 11.0Ah - 17.0Ah

Weight: 3.25 Kg

Size: 89L x 87W x 347H mm

36V

Model No.: KL3697 Configuration: 10S3P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.66 Kg

Size: 89L x 87W x 289H mm

48V

Model No.: KL4805 Configuration: 13S5P

Normal Capacity: 11.0Ah - 17.0Ah

Weight: 4.09 Kg

Size: 93L x 90W x 420H mm

48V

Model No.: KL4806 Configuration: 13S6P

Normal Capacity: 13.2Ah - 20.4Ah

Weight: 4.69 Kg

Size: 111L x 87W x 484H mm



#### 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







# YEAR Warranty

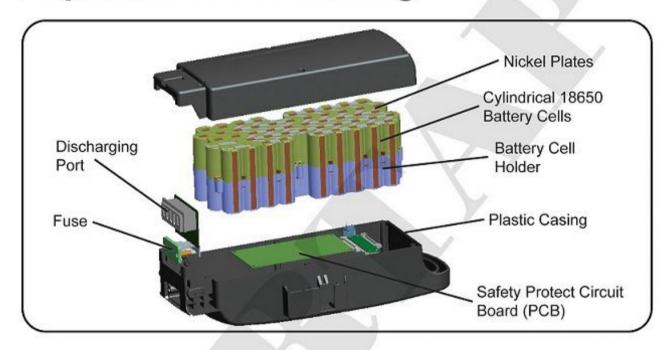
#### **Compatible Series - Handy Carry Battery Pack**







### **Exploded View Drawing**

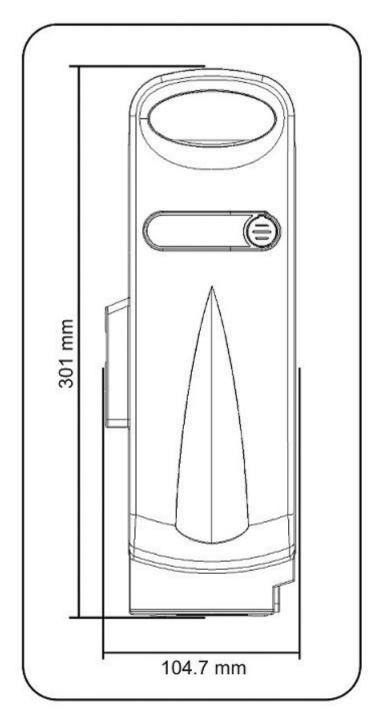


#### **Specification**

Model Code	KLH24S65B KLH24S66		
Configuration	7S5P	7S4P	
Voltage	24V		
Capacity	11.0Ah ~ 17.0Ah	8.8Ah ~ 13.6Ah	
Dimension	301L x 104.7W mm		

#### Other Available Configuration Specification

Configuration	7S3P	7S6P	7S7P	
Voltage	24V			
Capacity	6.6Ah ~ 10.2Ah	13.2Ah ~20.4Ah	15.4Ah ~23.8Ah	
Dimension	301L x 104.7W mm			



### **Compatible Series Battery Pack**





**Water Bottle Type** 







Charging port with protective cover



**LED Power Indicator** 

36V

Model No.: KL3645 Configuration: 10S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.53 Kg Size: Ø 96 x 312H mm 36V

Model No.: KL3622 Configuration: 10S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.53 Kg Size: Ø 96 x 325H mm



**Battery Base** 



### Little Frog Type



24V

Model No.: KL2407 Configuration: 7S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 1.82 Kg

Size: 241L x 143W x 85H mm

36V

Model No.: KL3607 Configuration: 10S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.32 Kg

Size: 241L x 143W x 85H mm

36V

Model No.: KL3643 Configuration: 10S3P

Normal Capacity: 6.6Ah - 10.2Ah

Weight: 1.74 Kg

Size: 241L x 143W x 85H mm

# Warranty.

#### **Compatible Series Battery Pack**

**24V** 

Model No.: KL2408 Configuration: 7S4P

Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.62 Kg

Size: 397L x 150W x 76H mm

36V

Model No.: KL3617 Configuration: 10S5P

Normal Capacity: 11.0Ah - 17.0Ah

Weight: 3.79 Kg

Size: 410L x 151W x 66H mm

**36V** 

Model No.: KL3618 Configuration: 10S6P

Normal Capacity: 13.2Ah - 20.4Ah

Weight: 4.18 Kg

Size: 410L x 151W x 66H mm





**Aluminum Case** 



Charging port & Power Switch





Different Types of Discharging Port

36V

Model No.: KL3608 Configuration: 10S4P Normal Capacity: 8.8Ah - 13.6Ah

Weight: 2.79 Kg

Size: 90L x 92W x 385H mm

36V

Model No.: KL3612 Configuration: 10S7P

Normal Capacity: 15.4Ah - 23.8Ah

Weight: 4.8 Kg

Size: 110L x 78W x 390H mm

# Warranty 1

#### Li-ion Battery Pack Featuring Reliable Designs





A layer of waterproof plastic on Protection Circuit Board (PCB) Assembly

#### 1. Intelligent Protection Circuit Module

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

#### 2. Water & Dust resistant of PCB Assembly

 A layer of waterproof plastic on Protection Circuit Board (PCB) Assembly prevents both water and dust from damaging PCB Assembly. Protection reaches IP65\* standard. The PCB is protected even battery is sank into water.

	*IP 65 Water Proof
IP	Ingress Protection (The IP number is composed of two numbers, the first referring to the protection against solid objects and the second against liquids. The higher the number, the better the protection.)
6	Totally protected against dust.
5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

#### 3. Built-in Gas Gauge IC

 The protection circuit board built-in Gas Gauge monitors battery status and enables data output to various accessories such as 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.



### **Electric Bicycle Accessories - LCD Panel**





**New Design New Model** 

#### Features:

- Compact Size easy to carry
- Multi Functional :
  - May serve as power key
  - Smartphone USB charge port
  - Display battery and ebike performance information



**USB** Output











Current Speed (in Km/h or MPH)



**Battery Error** 



Capacity



Total Number of Cycles



Battery Fully Charged



**Total Time of** Trip



Low Battery Alarm (Battery status bar flashed)







Total Trip of Distance



Estimated Range Available

(in Km/h or Miles)



**Torque Speed** 



**Speed Selection** 

#### Four different speed modes to choose:

- · Eco: Energy saving scheme to provide gentle support while pedaling
- · Tour: An optmal balance of comfortable riding experience and effcient power usage
- · Sport: Deliver solid power for best performance
- · Turbo: There is always time when extra speed is needed

# Warranty.

### **Electric Bicycle Accessories - LCD Panel**

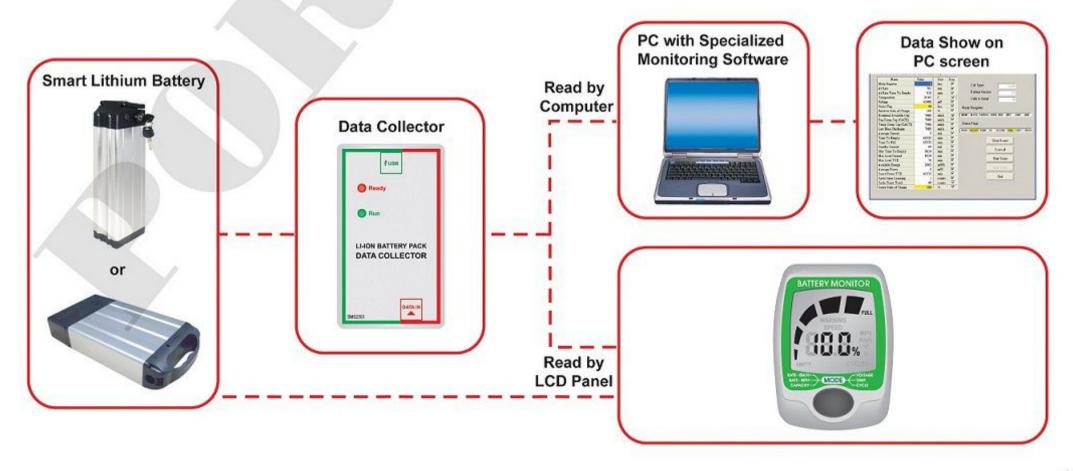


With the built-in fuel gauge, data and performance of the e-Bike battery, like power available, voltage, temperature and total number of cycles would be captured and shown on the LCD panel.



#### **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.





#### **Battery Discharge Current Specification**

In order to choose a suitable battery for your vehicle at best, high discharge current is also available according to various specification in the market.

#### **High Discharge Current Version**

Fitting Product Model Code: KLHxxxx/KLHxxSxx/KLxxHxx/KLxxHSxx							
Cell Brand	Call Madal	Cell Code	Configuration	Capacity (Ah)	Maximum discharge current		
	Cell Model				continue	10mins	5s
Panasonic	UR18650AA	082	3P	6.75	10A	13A	18A
			4P or above	>8.7	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
	NCR18650B	804	3P	10.2	10A	13A	18A
			4P or above	>10.2	15A	18A	35A
	IND106504220	083	3P	6.6	10A	13A	18A
VIE	INR18650A220		4P or above	≥8.8	15A	18A	35A
YLE	ICR18650A240	085	3P	7.2	10A	13A	18A
			4P or above	≥9.6	15A	18A	35A
Samsung	ICR18650-22F	803	3P	6.6	10A	13A	18A
			4P or above	≥ 8.8	15A	18A	35A
	ICR18650-26F	806	3P	7.8	10A	13A	18A
			4P or above	>10.4	15A	18A	35A

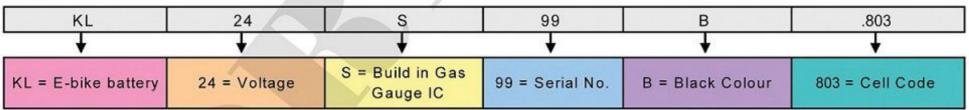
#### Remark:

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

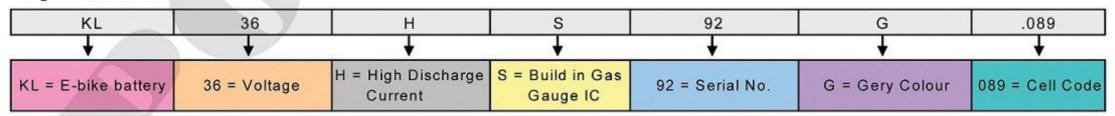
Standard Discharge Current Version

e.g. KL24S99B.803



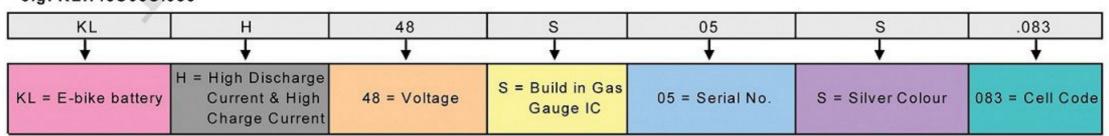
· High Discharge Current Version

e.g. KL36HS92G.089



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

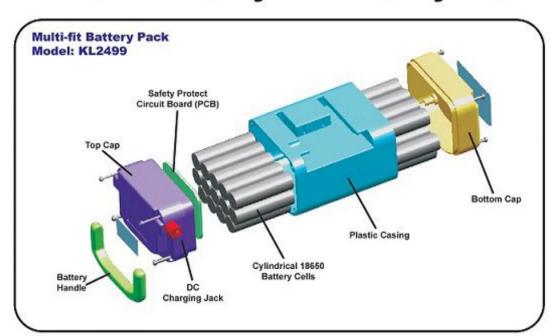
e.g. KLH48S05S.083

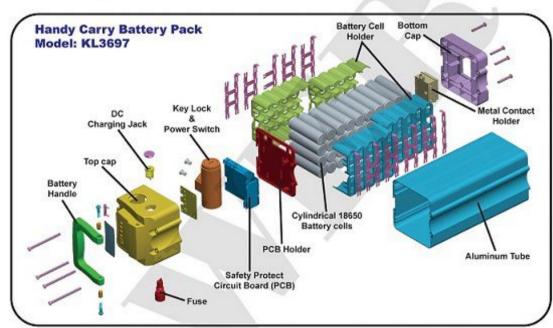




#### **Exploded View Drawing**

#### Electric Bicycle Battery Built with Cylindrical Battery Cells







**Brand: Panasonic** 

Mode No.: NCR18650PD

Voltage: 3.6V

Capacity: 2900mAh

Dimension: Ø18.6 x 65.2 mm



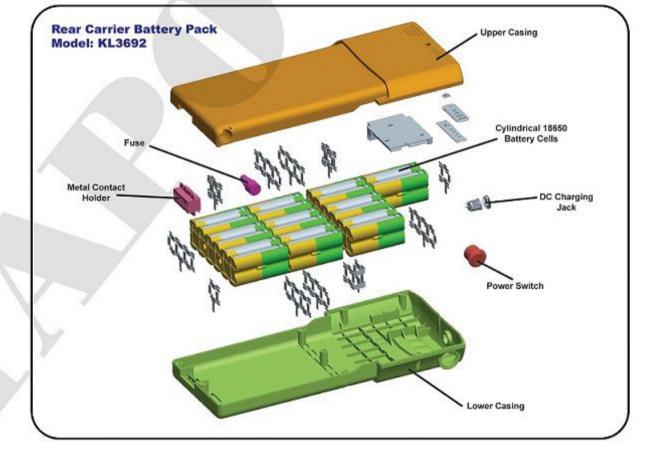
**Brand: Samsung** 

Mode No.: ICR18650-22F

Voltage: 3.6V

Capacity: 2200mAh

Dimension: Ø18.4 x 65 mm





**Brand: YLE** 

Mode No.: INR18650A220

Voltage: 3.6V

Capacity: 2200mAh

Dimension: Ø18.3 x 65.2 mm



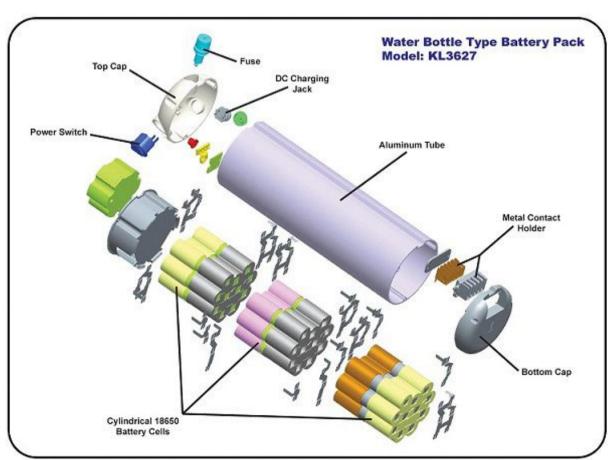
**Brand: YLE** 

Mode No.: ICR18650A240

Voltage: 3.7V

Capacity: 2400mAh

Dimension: Ø18.3 x 65.2 mm

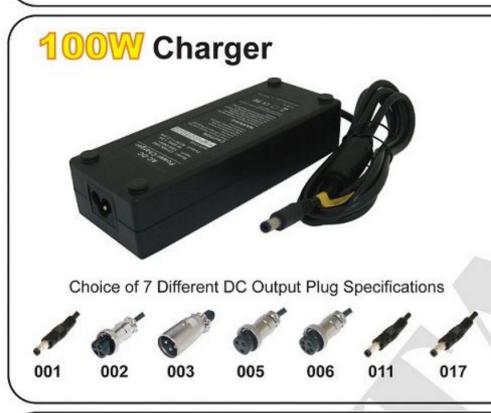




#### **Electric Bicycle Accessories - Battery Charger**

## 60W Charger Choice of 6 Different DC Output Plug Specifications 001 002 003 005

Specification				
Model	ACK2804N	C060L0701	1 C060L1001	
Battery Voltage	24V	24V 36V 24V		36V
AC Input	100-240V			
Frequency	47 - 63Hz			
DC Output	29.4V	42.0V	29.4V	42.0V
Charging Current	1.5A	1.35A	1.5A	1.35A
Power	Max.60W			
Dimension	115L x 58W x 31H mm			
Certification	CE, UL, GS, SAA & C-tick CE, FCC			FCC



#### Specification Model CP100L0702 CP100L1002 CP100L1202 CP100L1302 **Battery Voltage** 42V 24V 36V 48V AC Input 100-240V Frequency 47 - 63Hz DC Output 29.4V 42.0V 50.4V 54.6V **Charging Current** 2.35A 2.2A 1.8A 1.8A Max.100W Power 170L x 65W x 38.5H mm Dimension CE, FCC Certification



Specification				
Model	CP200F0807	CP200F1205	CP200F1604	
Battery Voltage	24V	36V	48V	
AC Input		100-240V	*	
Frequency	50 - 60Hz			
DC Output	29.4V	42.0V	54.6V	
Charging Current	7A	7A 5A		
Power	Max.200W			
Dimension	203L x 138W x 75.5H mm			
Certification	CE, FCC			

#### Choice of 7 Different AC Input Plug Specifications for Chargers:















Australian Type

British Type

European Type

Japan Type

American Type

Features: With Power Factor Correction Built-in

Features: With Power Factor Correction Built-in

Switzerland Type

Israel Type