



## **ELECTRIC MOTORCYCLES BATTERY TYPE**



# ELECTRIC MOTORCYCLES

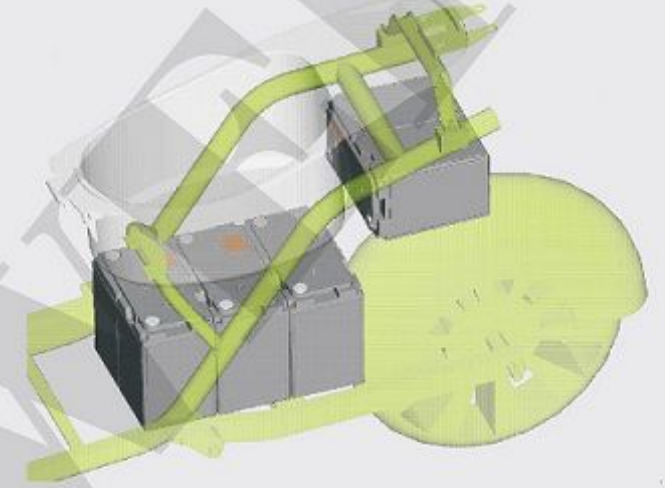
## BATTERY TYPE



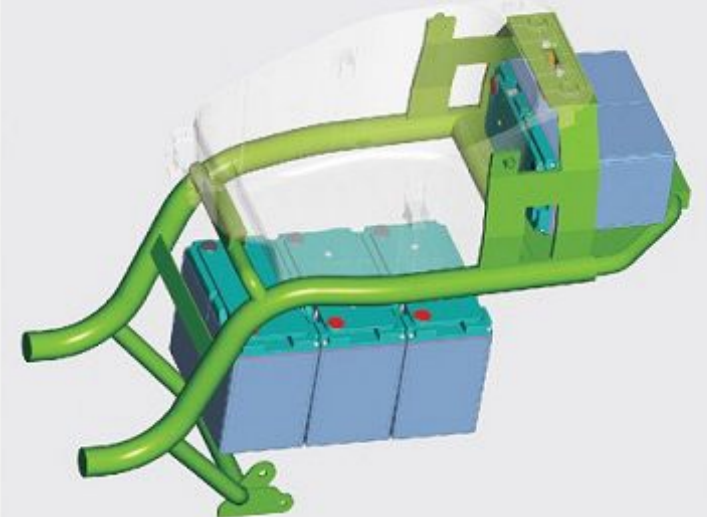
### Electric Motorcycle Internal Battery System



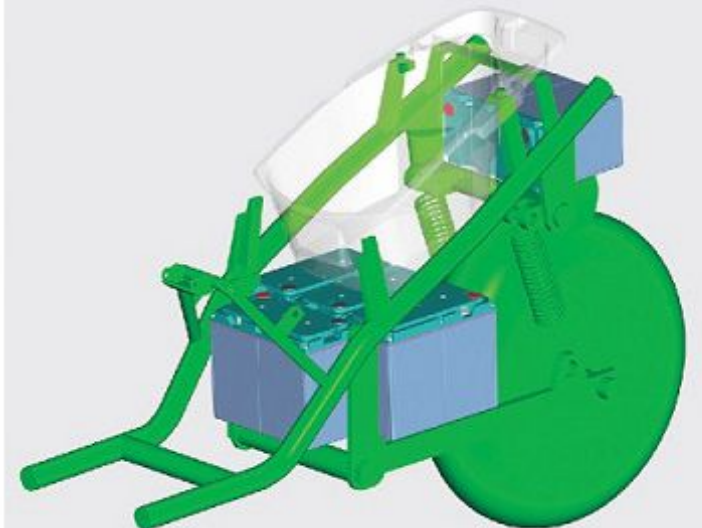
**48V Battery System**  
Combination: 4S1P  
4 sets 12V / 40Ah  
Lithium Battery Pack,  
connected to a 48V / 40Ah  
Battery System



**48V Battery System**  
Combination: 4S1P  
4 sets 12V / 40Ah  
Lithium Battery Pack,  
connected to a 48V / 40Ah  
Battery System



**60V Battery System**  
Combination: 5S1P  
5 sets 12V / 40Ah  
Lithium Battery Pack,  
connected to a 60V / 40Ah  
Battery System



# ELECTRIC MOTORCYCLES BATTERY TYPE



## Independent Use High - Power Lithium Battery Pack

### Specifications

Product Code	KL48BC09S.809	KL60BC19S.809
Configuration	NCR18650PD - 14S10P	NCR18650PD - 18S8P
Cell Type	Li-ion	Li-ion
Voltage	48V	60V
Rate	29Ah	23Ah
Power	1392Wh	1392Wh
Size	346L*212W*84.5H mm	430L*212W*84.5H mm
Max. Discharge Current (Cont.)	60A	60A
Max. Discharge Current (Pulse-20s)	100A	100A

**NEW**



**48V**

**60V**



The discharge time and capacity are recorded and shown on LCD Panel.

### Battery Charger

Input: 115V~60hz 6A Max. or  
230V~50Hz 3A Max.

Output: 14.4V - 75.5V  $\approx$  15A Max.

Power: Max. 500W

Dimension: 185L x 155W x 90H mm

Weight: 2 kg



**500W Charger**

### Features:

- ▶ High Capacity and High Discharge Current
- ▶ LCD state of charge indicator
- ▶ Customized Size (Base on capacity)
- ▶ Strong and Portable Aluminum Casing
- ▶ Suitable for wide range of applications

### DC Output Plug



Different types of DC output plug, choose the suitable one according to the battery or device.

# ELECTRIC MOTORCYCLES BATTERY TYPE



## Plug-and-Run Battery System for e-Motorcycle



### Features:

- Accommodate up to 3 lithium battery packs
- Each pack can operate independently
- BMS to command switching automatically from one used up battery to another one for supplying power continuously

### LCD Instrumentation

The BMS controller analyzes performance of both battery and motorcycle with data shown on the LCD display.

<p><b>Battery Capacity</b></p>	<p><b>Battery Charging Status</b></p>	<p><b>Battery Error</b></p>	<p><b>Battery Exceeds Safe Operating Temperature</b></p>
<p><b>Current Speed</b></p>	<p><b>Estimated Range Available</b></p>	<p><b>Total Distance Traveled</b></p>	<p><b>Manual Mode</b></p>

# ELECTRIC MOTORCYCLES BATTERY TYPE



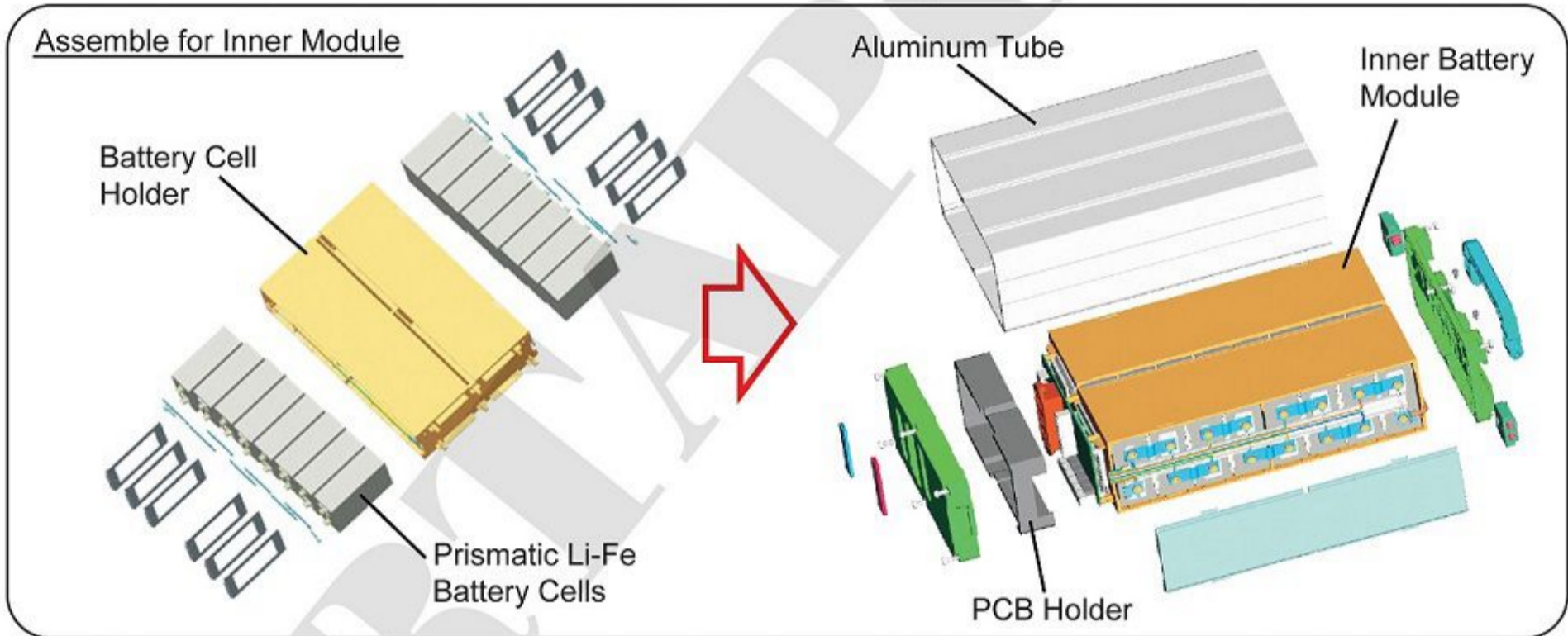
## High - Power Lithium Batteries (use with Plug & Run Battery System only)



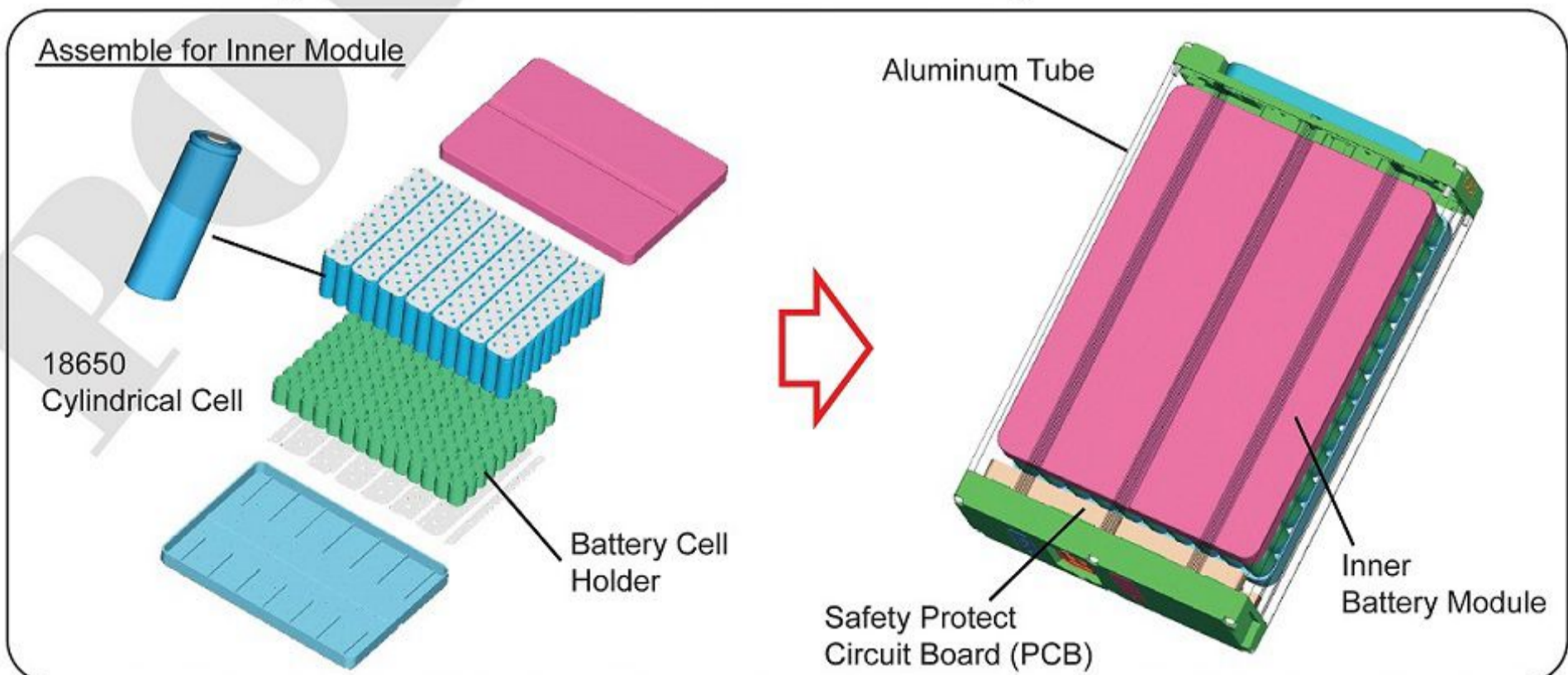
### Battery Pack Specifications

Model Code	KLF52B16S.379F	KL48B09S.809	KLF54B18S.279F	KL54B09S.809	KLF60B16S.279F	KL60B19S.809
Voltage	48V	48V	48V	48V	60V	60V
Capacity	12Ah	29Ah	10Ah	26Ah	10Ah	23Ah
Combinations	16S1P	14S10P	18S1P	15S9P	20S1P	18S8P
Battery materials	Li-ion			Li-ion		
Dimensions (mm)	346L x 212W x 84.5H mm			430L x 212W x 84.5H mm		
Weight (kg)	10.5 kg	10.2 kg	9.5 kg	10 kg	11 kg	10.2 kg
Max. Cont. Discharge	60A			60A		
Max. Pulse Discharge	100A (20 sec.)			100A (20 sec.)		

### • Li-Fe Prismatic Cells Lithium Battery Pack



### • Li-NMC Cylindrical Cells Lithium Battery Pack



# ELECTRIC MOTORCYCLES BATTERY TYPE



## High - Power Lithium Battery Chargers

Input: 115V~60hz 6A Max. or  
230V~50Hz 3A Max.  
Output: 14.4V - 75.5V  $\approx$  15A Max.  
Power: Max. 500W  
Dimension: 185L x 155W x 90H mm  
Weight: 2 kg



**500W Charger**

Input: 100V~240Hz 6A Max.  
Output: 14.4V - 75.5V  $\approx$  20A Max.  
Power: Max. 1200W  
Dimension: 295L x 155W x 90H mm  
Weight: 3 kg



**1200W Charger**

### DC Output Plug



Different types of DC output plug, choose the suitable one according to the battery or device.

### LED Indicator



## Brushless Motor Controller

### Technical Specifications:



Voltage	40V - 75V
Power	Max. 3000W
Rated Current	45A - 60A
Max. Current	70A
Size	265 x 178 x 58.5 mm
Weight	2.7 kg
Water Resistant	Complies with IPX4 IEC60529



Voltage	60V - 85V
Power	Max. 4500W
Rated Current	60A - 75A
Max. Current	100A
Size	242 x 208 x 70 mm
Weight	3.9 kg
Water Resistant	Complies with IPX4 IEC60529

# ELECTRIC MOTORCYCLES BATTERY TYPE



## DC Brushless Hub Motor

### Features:

- Low Noise
- High Efficiency (>80%)
- High Torque
- High Reliability
- Stepless Speed Control
- Excellent Performance Characteristics

### Technical Specifications:



Diameter	10 - inch			
Power	1500W	2000W	2500W	3000W
Voltage	48V - 60V			
Current	60V			
Speed	310rpm	740rpm	847rpm	1175rpm
Torque	126N.m	120N.m	127N.m	139N.m
Size	Ø254 x 63.5H mm			
Weight	13.95 kg			
Tires used	3.5 - 10			



Diameter	13 - inch	
Power	3000W	4000W
Voltage	54V - 72V	
Current	80V	
Speed	490rpm	1070rpm
Torque	150N.m	179N.m
Size	Ø330 x 89H mm	
Weight	16.67 kg	
Tires used	130/60 -13	

### Motor Performance:

Test for hub motor in 10 - inch, 60V / 3000V specifications.



Chart for Motor Efficiency

