

ELECTRIC MOTORCYCLE BATTERY TYPES

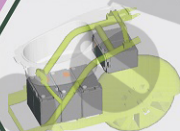




Electric Motorcycle Battery & Internal Battery Management Systems (BMS)



48V



4 sets of 12V / 40Ah (48V / 40Ah) Lithium Battery Pack, connecting to an Internal BMS

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



48V



4 sets of 12V / 40Ah (48V / 40Ah) Lithium Battery Pack, connecting to an Internal BMS

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



60V



5 sets of 12V / 40Ah (60V / 40Ah) Lithium Battery Pack, connecting to an Internal BMS

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

Plug-and-Run Battery Management System (BMS) For eMotorcycles



LCD Instrumentation

Lithium Battery Packs



Motor Controller



DC Hub Motor

- 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 the batteries and motorcycle with data shown on the LCD display panel.



Battery Capacity



Battery Error



Battery Charging Status



Battery Temperature Warning



Current Speed



Total Distance Travelled



Manual Mode



Estimated Range Available



High-Power Lithium Battery Packs For Plug-and-Run Battery System only

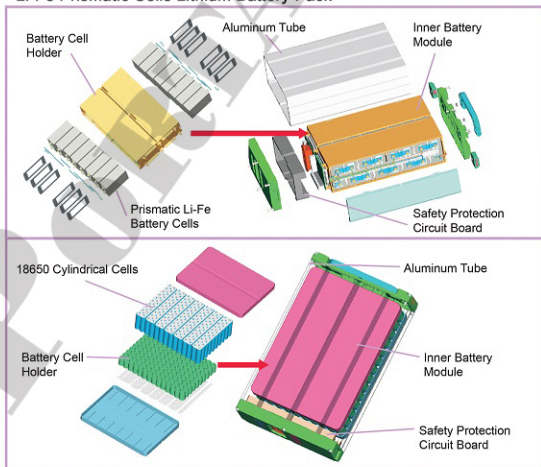


Battery Pack Specifications

| Product Code | KLFS2B16S.379F | KL48B09S.906 | KLFS4B18S.279F | KL54B09S.906 | KLFS60B16S.279F | KL60B19S.906 |
|-----------------------|------------------------------|--------------|----------------|--------------|------------------------------|--------------|
| Voltage | 48V | 48V | 48V | 48V | 60V | 60V |
| Rate | 12Ah | 35Ah | 10Ah | 31.5Ah | 10Ah | 28Ah |
| Combination | 16S1P | 14S10P | 18S1P | 15S9P | 20S1P | 18S8P |
| Battery Chemistry | Li-ion | | | | Li-ion | |
| Dimensions (mm) | 346 (L) x 212 (W) x 84.5 (H) | | | | 430 (L) x 212 (W) x 84.5 (H) | |
| Weight (kg) | 10.5 | 10.2 | 9.5 | 10 | 11 | 10.2 |
| Max. Cont. Discharge* | 60A | | | | 60A | |
| Max. Pulse Discharge* | 100A (20sec.) | | | | 100A (20sec.) | |

*Maximum discharge current value is subject to change. Please refer to the respective specification sheet of different products for the most updated details.

- Li-Fe Prismatic Cells Lithium Battery Pack



- Li-NMC Cylindrical Cells Lithium Battery Pack

I

Independent Use High-Power Lithium Battery Packs



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



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

| | | |
|-----------------------|------------------------------|------------------------------|
| Product Code | KL48BC09S.906 | KL60BC09S.906 |
| Configuration | NCR18650PF-14S10P | NCR18650PF-18S8P |
| Cell Type | Li-ion | Li-ion |
| Voltage | 48V | 60V |
| Rate | 35Ah | 28Ah |
| Power | 1680Wh | 1680Wh |
| Dimensions (mm) | 346 (L) x 212 (W) x 84.5 (H) | 430 (L) x 212 (W) x 84.5 (H) |
| Max. Cont. Discharge* | 60A | 60A |
| Max. Pulse Discharge* | 100A (20sec.) | 100A (20sec.) |

*Maximum discharge current value is subject to change. Please refer to the respective specification sheet of different products for the most updated details.

I

Independent Use High-Power Lithium Battery Charger



-500W Charger



-1200W Charger

| | |
|-----------------|--|
| Input | 115V~60Hz 6A max. or 230V~50Hz 3A max. |
| Output | 14.4V - 75.5V \approx 15A max. |
| Power | Max. 500W |
| Dimensions (mm) | 185 (L) x 155 (W) x 90 (H) |
| Weight | 2kg |

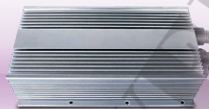
| | |
|-----------------|----------------------------------|
| Input | 100V~240V 50-60Hz 17A max. |
| Output | 14.4V - 75.5V \approx 20A max. |
| Power | Max. 1200W |
| Dimensions (mm) | 185 (L) x 155 (W) x 90 (H) |
| Weight | 3kg |



Choose the right charger and DC output plug according to the battery voltage.

B

Brushless Motor Controllers



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

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

D

C Brushless Hub Motors



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

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