

ROBO Power Cell F2/F3-850/1450/2100 (Li-Fe)

Thank you for purchasing this ROBO Power Cell Li-Fe battery. This instruction manual contains important safety precautions and instructions on how to handle this product.

■ Read First

Precautions for Use

■ Failure to obey the instructions below may result in a dangerous situation in which it is highly likely that death or serious injury may occur.

1. Do not reverse connect/short the battery.

Shorting the terminals causes damage to the battery, which in the worst case may result in the battery emitting smoke or fire. Hold the terminals firmly when disconnecting the battery. Do not pull on the cables. Never try to modify the genuine connectors. Continued use may result in the frame or parts becoming scratched, and the outer insulation of wires may become split. Check the wires periodically to ensure a short circuit does not occur.

2. Do not use at low voltage. Be careful of over discharging.

When batteries are used for a long period of the time, the capacity may reduce and voltage may drop. The same occurs with Li-Fe. Using a 9.9v rated 3-cell battery at lower than 8.7v or a 6.6v rated battery at lower than 5.8v (*) may damage the battery causing it to swell. This is known as over discharging. Continued use in this state may result in fire.
*2.9v for 1 cell.

3. Do not damage the battery. Do not drop or subject to strong impact. Do not disassemble or modify.

If the interior of the battery is exposed, gas may leak and ignite. When using the battery, be sure to check that the outer covering is undamaged, that the battery is fitted securely in the robot body, and that it cannot be damaged by impact due to falling, etc. before turning the switch on. If the battery appears damaged due to impact or if it appears unusual in any way, do not use or recharge it.

4. Do not use if the wire insulation is split.

Repeated use may result in the wire insulation becoming damaged and split. Pulling wires across the frame burring or allowing the battery to fall, etc. with the wires exposed may cause damage to the wires. Check the wires periodically, as wires exposed through small gaps in the insulation may result in shorting.

5. Do not carry around or store uncovered.

Carrying the battery around in a bag, etc. uncovered may result in metallic objects coming into contact with the battery causing a short out or damaging the battery resulting in a short out. Furthermore, storing in the wrong locations may result in items falling on the battery or water being splashed on the battery resulting in a short out. Always place inside an Li-Fe safety bag when carrying or storing the battery.

6. Use the correct type of charger, and make sure all setting values are correct. Be careful not to overcharge the battery.

There are various types of chargers available at a wide variety of prices, and such chargers are designed to charge specific types of batteries. Be sure to use an Li-Fe compatible charger that can provide balanced charging. Furthermore, the capacity of batteries differs. Be sure to set the charger to the rated voltage of the battery and the charge current below the capacity of the battery. Repeatedly charging the battery to unnecessarily high settings may cause damage to the battery or fire. Be extremely careful when charging batteries and do not leave the battery by itself during charging.

7. Do not use/store in high temperature/humidity.

Do not use or store in a location that is subject to direct sunlight, or in a location that may become hot such as inside a car or near a heater. Do not use or recharge in locations where it may be splashed with water or where there is a lot of humidity.

8. Do not use if the battery is swollen.

Swelling is a sign that the battery must not be used any longer. Dispose of the battery in accordance with the laws and rules in your region.



Warning

Important

Do not charge using the MX-201 charger (charger provided with KHR-3HV, KMR-P6, KMR-P4 models) The MX-201 charger is specifically for use with nickel-cadmium batteries, and will cause fire if used to charge Li-Fe batteries.

■ Specifications

Product No.	F2-850	F2-1450	F3-850	F3-1450	F3-2100
Capacity(mAh)	850	1450	850	1450	2100
L/W/H :±5%(mm)	55/30/18	87/34/15.5	55/43/19	87/34/23.3	98/30/30
Voltage	6.6		9.9		
No. of	2S		3S		
Balanced Charging	XH(3Pin)		XH(4Pin)		
Power Supply Connector	VH(2Pin)		VH(3Pin)		
C Rate (Continuous/Burst)	20C/40C		15C/20C	20C/40C	

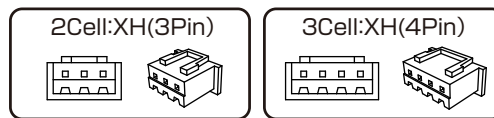
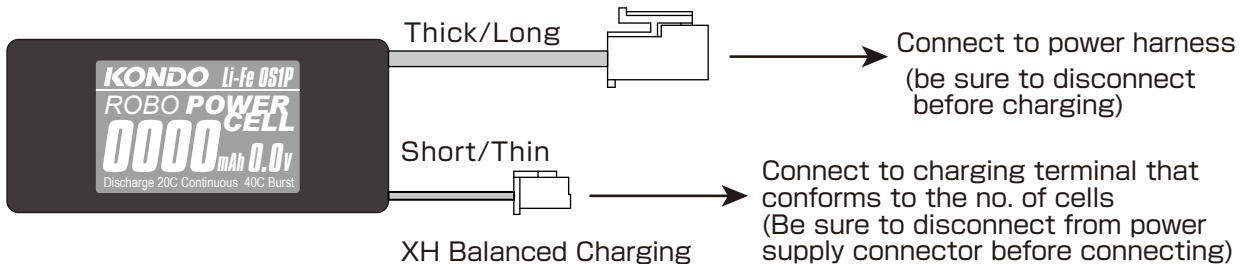
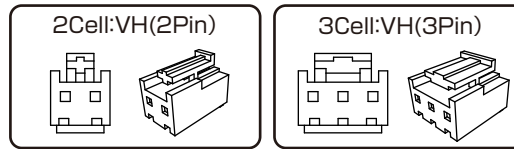
*Check the type of connector on your battery

■ Charging Method

Use a Kondo recommended charger and charge to the same capacity as the battery capacity.

	Charging Current	For BX-20LF
850mAh	0.8A	0.5A
1450mAh	1.4A	1A
2100mAh	2A	2A

VH Supply Connector



Important

Be sure to disconnect the power supply connector before charging. This device cannot be charged while connected to a device. Charging and supplying power at the same time will damage the device.

■ Disclaimer

KONDO cannot accept any responsibility whatsoever for any problems that arise through use of this product with a device, method or for a purpose other than those described in this manual, or problems that arise due to any other cause.

■ Repairs/Inquiries

Check our website for the latest information! <http://kondo-robot.com>

To request repairs, send the product together with a description of the issue to our service department at the following address.

Kondo Kagaku Co., Ltd. Service Department 4-17-17 Higashi Nippori, Arakawa - ku, Tokyo 116 - 0014

TEL : +81-3-3807-7648 (Direct line to service department) E-Mail : webmaster@kopropo.co.jp

Opening times: Monday – Friday (excluding national holidays) 9 : 00am - 12 : 00pm,