


MT202 Lithium-ion battery


A guide on how to care for our battery packs plus technical specification.



Freeway Med-Tech Hot-swappable DC 10.9V battery pack

Battery status LED indicators: 

- 4 LEDs on = 75-100% charged
- 3 LEDs on = 50-75% charged
- 2 LEDs on = 25-50% charged
- 1 LED on = 0-25% charged



Removing the battery pack:

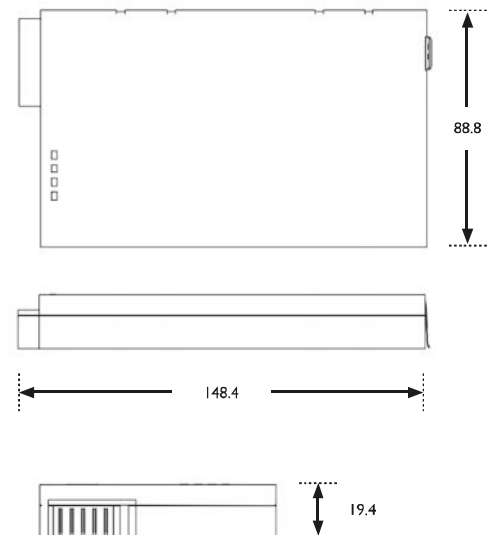
Simply pull on the cloth tab shown here.



Technical Specifications

N	Item	General Parameter	Remark
1.	Description	Freeway Med-Tech Li-ion rechargeable battery MT202 DC10.9V 7800mAh - 85Wh	3S3P Assembly
1.	Cell Model	Samsung SDI I8650	
1.	Typical Capacity	7800mAh	
1.	Typical Voltage	10.8V	
1.	End of Charge Voltage	12.6V	
1.	Charge Current	0.2C	
1.	Charging time	4.25 hours in monitor from 10% - 90%	Faster off-cart charging available using our external charger
1.	End discharge Voltage	8.4V	
1.	Max continuous charge	3.9A	
2.	Maximum continuous Discharging Current	10A	
2.	Over-discharge Voltage Protection cell	2.8V	
2.	Over-Current Discharge Protection	13-16A	
2.	Short circuit protection	With protection	
2.	Dimension	148.4x88.8x19.4mm	
2.	Weight	435g	
2.	Operating Temperature Range	Charge 0~45C, Discharge 20~60C	

Dimensions



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Quality. Assured.

IEC / EN 60601-1 4th edition / CE / WEEE / RoHS Compliant* for assured safety and quality for the medical environment.

*Details on request.

How to maintain Freeway Med-Tech batteries in long term storage?

Like all rechargeable batteries, Freeway Med-Tech 202 lithium-ion batteries will require maintenance if unused and left in storage for a prolonged period of time to prevent damage.

Due to international laws regarding battery shipping & transport regulations, Freeway Med-Tech is required to discharge the batteries below 80% prior to shipping. This shortens the initial duration batteries can be in left in storage.

Initial battery maintenance is required for batteries that will be in storage. This is to prevent any damage to the battery itself, and to prevent voiding the warranty on the battery. Please see our battery for the battery maintenance information for detailed information and tips for battery health.

Important safety information for storage is below:-

1. When storing batteries it is important to keep them away from ignition sources, and other sources of smoke.
2. Store batteries in a cool, well ventilated storage area, away from direct sunlight, moisture and open flame.
3. The ambient temperature should be between 0°C-30°C (32°F-85°F). High temperature could lead to battery leakage and rupture.
4. Do not store with oxidizing and acidic materials.
5. Keep batteries in original packaging or other non-conductive packaging.
6. Do not store batteries connected to a power source for extended periods (more than 3 -4 days).
7. Before storing the batteries, make sure to charge the battery between 90% to 100%.
8. Please note that during long term storage, the batteries will discharge some of their pre storage capacity over time due to the internal losses.
9. Once in storage, the batteries must be recharged every 6-months (MT202).
10. During prolonged storage periods Freeway Med-tech recommends batteries are evaluated for run-time after 18-months, and 6-month intervals thereafter.

If a battery is left in storage for over 12 months without recharging, please do not use the battery and discard it following local recycling laws. While very unlikely to occur, all lithium-Ion battery that has not been recharged in an extended period of time has potential hazards such as fire.

Should you wish to discuss any questions or concerns regarding the above information, please contact your local Freeway Med-Tech representative.