

Lithium Battery
BATTERY POWER+
BOOSTER PATCH™

Exclusive Global Distributor :
HANJITECH INC.
WWW.HANJITECH.COM



Standby Time
Increase



Battery Performance
Enhancement



Heat Decrease



Reactive Sensitivity
Enhancement



Nature-Friendly
Right Direction
Electromagnetic Wave



Notebook Usability



Digital Camera
Usability



Cell Phone
Usability

Introduction

Battery Life Extender
Lithium Battery
BATTERY POWER+
BOOSTER PATCH™

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Buying one, **BatteryPowerPlus+**,
Longer~more Extending~Maintaining Cell Phone Battery

BatteryPowerPlus Need

- ✓ In case you get into trouble in keeping touch with your company after your cell phone's battery is dead.
- ✓ In case you are in a trouble to send and receive an important message.
- ✓ In case your battery is dead at a crucial moment during talking.
- ✓ In case you are worried about the harmful electromagnetic wave by using cell phone.
- ✓ In case your new cell phone's battery is dead soon in a short time.
- ✓ In case your battery's charging time is too long to get a full charge.
- ✓ In case your cell phone is working well, but the battery's life is exhausted to consider to buy a new phone.
- ✓ In case you are always ready to prepare the charger.
- ✓ In case your phone is getting too hot during the longtime talking.

Battery Life Extender
Lithium Battery
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Cell Phone Talking/Standby Time

30~50% Up

- ✓ Cell Phone Talk/Standby Time Increase
- ✓ Lithium Ion Battery Life Extension
- ✓ Longtime Talking, Heat Decrease
- ✓ Conversion of harmful Left-directional Radiation into unarmful Right-direction Radiation

Patent Pending 10-2011-0083262

New Product to improve the performance of cell phone's battery
New developed patent product to use the hybrid ceramic material
unharmful to human body

Battery Life Extender
BATTERY POWER+ BOOSTER PATCH™
Lithium Battery

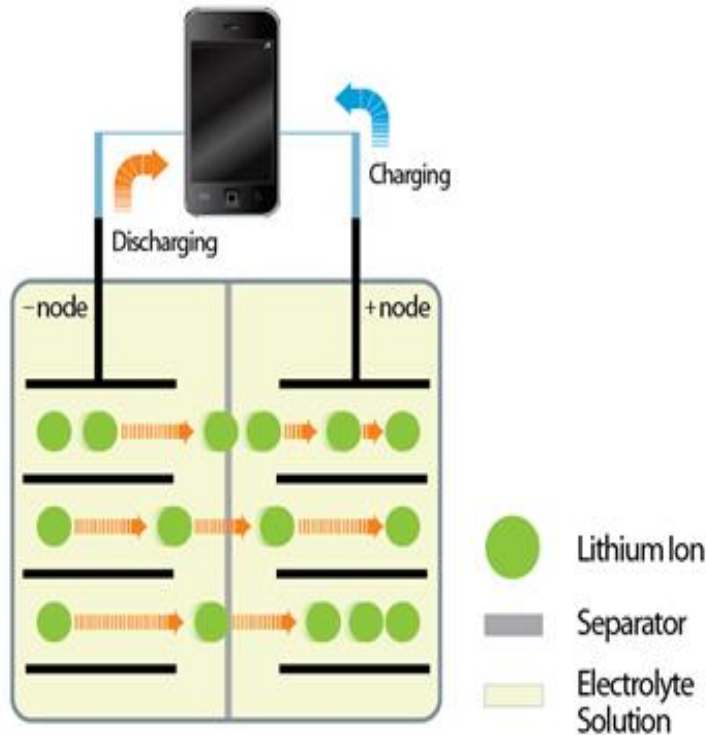


Diagram 1 - Before Patch Application

Cell Phone (Before Patch Application)

Lithium-ion Battery Principles

Most cell phone's lithium ion battery use LiCoO_2 as (+) node and C as (-) node.

Viewing from diagram 1, we can see that green lithium ion moves from (-) node to (+) node. The electron flow is not constant and occasionally generates the overload which 2~3 ions move at once. This irregular flow of electrons is the cause of cell phone's overheating and generation of harmful electromagnetic.

It is important for heating and irregular ion's movement generating from during moving of ions to move constantly.

Battery Life Extender
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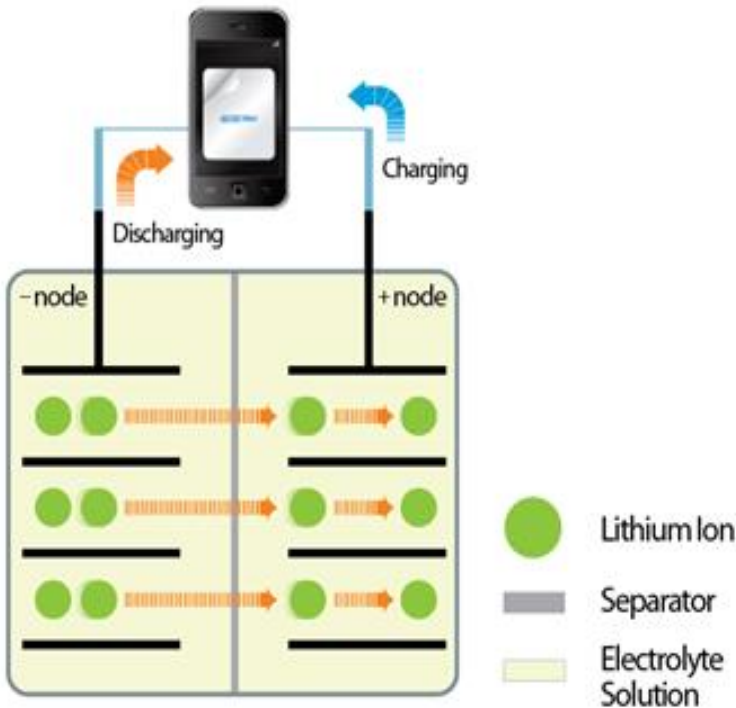


Diagram 2 - After Patch Application

Cell Phone (After Patch Application)

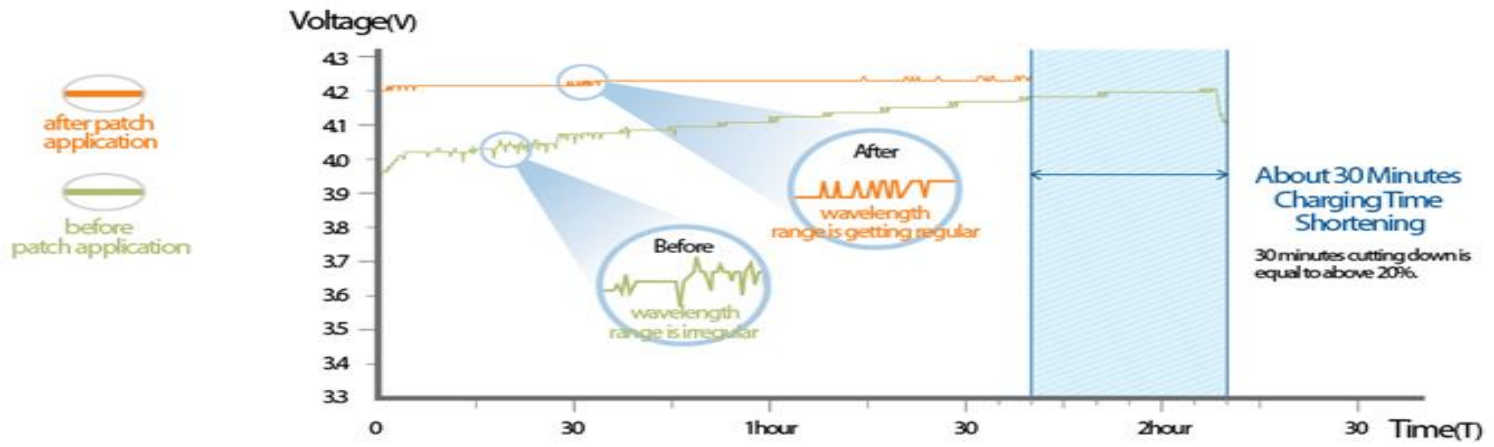
Lithium-ion Battery Principles

Batterypowerplus⁺ makes the migration of ions constant (process which patch's magnetic field stirs up the polarity between ion and ion), thus it blocks the migration of ions which two ions move together or several ions move at once.

Therefore, the load is getting low and the temperature is not getting high and thus we can use the battery longer. Furthermore the patch makes the battery life longer and after charging the battery, it also makes about 30~50% increase of the talk/standby time.



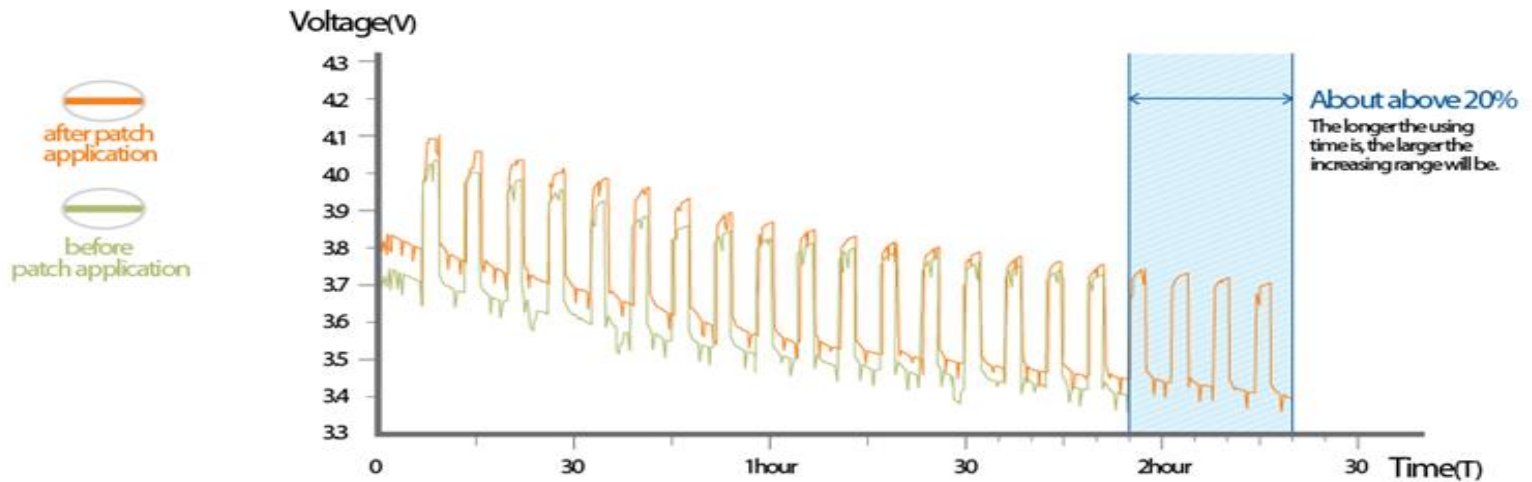
Charging Time Experiment Charging from the Lithium Ion



Batterypowerplus⁺ The magnetic field of batterypowerplus patch causes the polarity between lithium ion and carbon ion and thus makes the wavelength width of the current to be regular and cuts down the charging time.

BATTERY POWER ⁺	Wavelength Range	Change of Wavelength	Pattern of Wavelength
before patch application	high and low movement width is large	irregular	
after patch application	high and low movement width is small	regular	

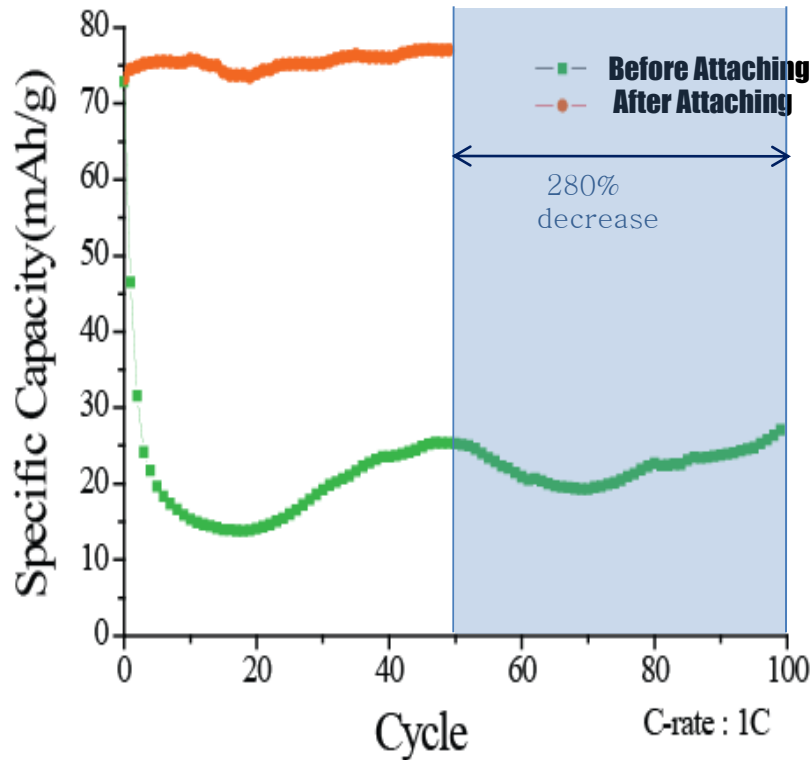
Talk and Discharging Time Experiment Charging from Voltage Characteristics



The magnetic field of batterypowerplus causes the voltage to increase and the change of wavelength to be regular, and thus causes the battery's consumption amount of cell phone to decrease. (low current value and large wavelength width cause the battery's consumption to increase.)

BATTERY POWER+	The Amount of Current	Change of Wavelength	Consumption of Battery
before patch application	low(battery consumption is high)	irregular	large
after patch application	high(battery consumption is low)	regular	small

Capacity Test (Chungbuk University Experiment Result Oct. 20th, 2011)



graphite/LiMn₂O₄ full cell
 100 cycle capacity (black) and additional 50 cycle capacity after patch application (red)

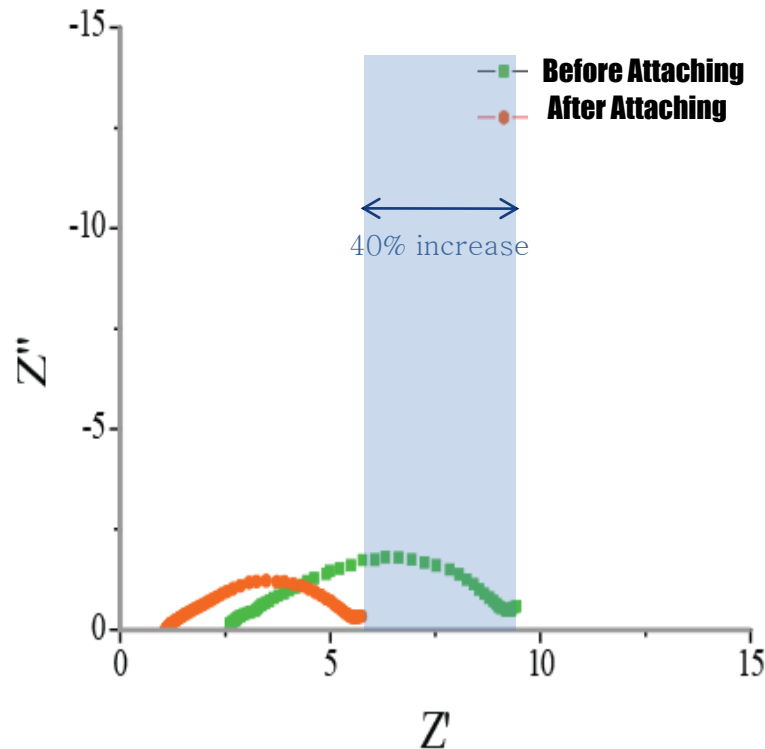
The C rate is often used to describe battery loads or battery charging. 1C is the capacity rating (Amp-hour) of the battery.

The black line shows that the capacity drops from 100 to 30 after high speed charging/discharging.

The red line shows that the capacity recovers to 75 after patch application.

The battery capacity is increased 280% due to drop of resistance.

AC Impedance Spectra – Resistance Frequency (Chungbuk University Experiment Result Oct. 20th, 2011)



graphite/LiMn₂O₄ full cell
 After 100cycle Charging and Discharging (Black Line)
 After Patch Application (Red Line)

The value of resistance was 10, after application of patch, it drops to 6. The drop of resistance means load decrease, in other words, the smoothness of the electrons' flow. It will make easy the battery's working and then we can expect that the usage capacity will be increased.

Package

Battery Life Extender Lithium Battery **BATTERY POWER+ BOOSTER PATCH™**

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* Patch Size : 6.5cm x 5.0cm
(Approximately : 2.5 inch x 2 inch)
The patch can be cut and trimmed to fit smaller sized batteries.



Important Notes :

- The product performance may vary depends on the electrode material of the batteries.
- The same effect can be expected in the other products using lithium battery such as notebook computer, digital cameras, camcorders, etc.
- Cellphone should be interchangeable batteries – for easy installation. This patch is not ideal for Iphone.
- The Patch performance is optimized on used cellphones that are at least 6 months old.

Packaging : Cardboard Envelop 19cm (L) x 10cm (W)
(Approximately 7.5 inch x 4 inch)