



surge®

for iPhone 3G & 3G S

User Manual



iPhone 3G
8GB 16GB



iPhone 3GS
16GB 32GB


“Patent Pending”

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Welcome

Thank you for purchasing the SURGE for iPhone 3G & 3GS! With Novothink's hybrid solar charger case, you can now **powerup** your iPhone 3G literally anywhere under the sun.

Finally, a Green Energy Solution  so you never run out of power again!
Charge indoors (USB) or outdoors with the sun, anytime and anywhere!

LET'S GO SOLAR!



Features



iPhone 3G
8GB 16GB



iPhone 3GS
16GB 32GB

Custom designed for

iPhone 3G & 3GS - 8 GB, 16 GB and 32GB



State-of-the-art solar panel technology allows your iPhone 3G to power up anytime, anywhere.



Integrated rechargeable 1320mAh 3.7 V lithium-ion polymer battery more than doubles the battery life of iPhone 3G and offers 105% capacity of iPhone 3G.



Comfortable ergonomic design with a soft-touch, non-slip finish.



4 LED battery status indicator.



Durable, yet lightweight construction.

Benefits



Charge while walking, running, hiking, or biking.



Charge while on the beach, camping, or traveling anytime.



Solar Charger and case all in one.



The freedom and convenience of not running out of power regardless of where you are!



USB 2.0 for your indoor charging needs. Also allows you to charge or sync with iTunes without ever having to take your iPhone out of the case.

Benefits cont'd



Clean, green energy source



Full access to touch screen



Available on the
App Store

Download the **FREE** Solar Everyday Planner application from iTunes to get an estimate of how long you will need to keep our SURGE in sunlight to keep it charged over a number of days.

You may also access the Solar Everyday Planner on www.novothink.com

Contents



Solar charging case



USB 2.0 cable



User Manual

Let's get started

1. Take your SURGE out of the box.
2. Connect the SURGE to your computer using the USB cable provided.
3. Charge your SURGE for approximately 3 hours to ensure maximum charge of the internal lithium-ion polymer battery. LED lights should all light green when pressing the indicator button. (Note: To ensure a full first-time charge, please disregard the green status LED lights until at least 3 hours have passed).

1.



2.



3.



Charging your iPhone 3G

1. Remove USB cable from the SURGE.
2. Gently slide your iPhone 3G / 3G S into the fully charged SURGE, ensuring that it is firmly connected to the 30 pin connector.
3. You are ready to go! The Solarcharger Surge automatically charges your iPhone 3G / 3G S using its internal rechargeable battery whenever your iPhone 3G is not fully charged. When your iPhone is fully charged, the SURGE automatically transfers the charge to its internal battery.

2.



Apple's 30 pin connector.

3.



Charging your SURGE®

You can re-charge your SURGE anytime without ever having to remove the iPhone 3G / 3G S from the cradle case. You can either **powerup** by the sun or use the included USB cable to charge the SURGE.

1. **Powerup** by the sun:

- Anytime you expose your SURGE to sunlight, the solar panel converts the sun's energy to electricity, which is then being stored into the internal lithium-ion polymer battery.
- The brighter the sunlight, the better and faster the charge.
- In general, 2 hours of direct solar exposure provides 30 minutes of talk time on a 3G network or 60 minutes talk time on a 2G network
- Check out the Solar Everyday Planner at www.novothink.com to find out how long you would need to keep your SURGE in the sunlight to keep it powered up over a number of days. The Solar Everyday Planner will be your **powerup** resource, so you never run out of power again!

- The SURGE is fully charged when all four LED lights are green.

2. Using the USB cable

- Connect the SURGE to your computer using the USB cable provided.
- While charging the SURGE with the USB cable, the red light will continuously light up.
- The SURGE is fully charged when all four LED lights are green.
- Solar charging is automatically disabled when the SURGE is charging via the USB cable.
- Please note: The SURGE gives priority to the iPhone battery and therefore charges the iPhone first before charging itself when plugged in via USB. Therefore, if both the iPhone's and the SURGE's batteries are depleted, it will take longer to charge both batteries to a full charge.

LED battery status indicator

The built-in LED lights let you know whether you have sufficient light source for solar charging and approximately how much charge level remains in your charger. Please note that percentages indicated below are approximate and that fewer LED lights will light up when the iPhone 3G / 3G S is inserted into the charger.

Please refer to the diagram below in order to understand the LED lights.

The first button will light up RED anytime the charger is exposed to sufficient light and is solar charging your SURGE.

By pressing the button next to the LED lights, you may get the following light combinations:





1. One red light: Indicates that your SURGE is charging by Sunlight or USB cable.



2. No lights: You are out of power. PowerUp with Sunlight or your USB.



3. One green light: Charge level is about 25% and light source is too dim or not available. USB charging is recommended.



4. Two green lights: Charge level is about 50% and light source is too dim or not available.



5. Three green lights: Charge level is about 75% and the light source is too dim or not available.



6. All lights are green: The SURGE is fully charged. Please note: You will only see this light combination when the iPhone is not inserted in the SURGE. When you insert your iPhone into the fully charged SURGE, only three bars will light up as the SURGE gives power back to your iPhone.

Sync Mode

You can sync your iPhone 3G / 3G S with iTunes while it is in the SURGE case. Just connect the SURGE to your computer with the provided USB cable and you're ready to sync!

Removing your iPhone 3G / 3G S from the SURGE

Place your thumbs (see illustration) on the lower corners of your iPhone 3G / 3G S and gently push forward to slide it out from the SURGE case.



FAQs

Q: How does solar power work?

A: Solar energy is a well tested power source that is already being used around the world for numerous commercial, industrial, government and domestic applications. It works by transforming the energy from the sun into a reusable form of electricity, a process known as Photovoltaic (or PV for short). Your Solar panel acts as a collecting tray, helping you catch the sun's rays. The bigger the panel, the more energy you can collect. The energy collected is stored for your future use in a battery. Clean and green, solar power is a renewable, sustainable and non-polluting source of energy. It requires low maintenance, is long lasting and is a highly cost-effective and reliable energy supply. Whenever sufficient light is available, the integrated solar panel on the Solarcharger Surge charges the internal battery which in turn will charge your iPhone 3G when needed. For times when adequate light is not available or when you just need a quicker charge, the USB port offers a fallback option.

FAQs con't

Q: Can you give me an idea about how long I need to keep the SURGE in the sun to be able to continue using my iPhone 3G / 3G S?

A: Certainly! Check out the Solar Planner at www.novothink.com to get an estimate of how long you would need to keep your SURGE in sunlight to keep it charged over a number of days. Please note that the Solar Planner does not take into account charging via USB. In general, two hours of direct solar exposure provides 30 minutes of talk time on a 3G network or 60 minutes talk time on a 2G network.

Q: Can I use the SURGE with my first generation iPhone?

A: No, the SURGE is specifically designed for the size, contour, and hardware of the iPhone 3G. However, our Sun Spark NT05 is compatible with the older iPhone generations. Please check www.novothink.com for more info on the Sun Spark NT05.

Q: Can I charge my SURGE using my iPhone 3G Power Adapter?

A: Absolutely!

Q: Can I charge my SURGE using indoor lighting such as fluorescent lighting?

A: No, indoor lighting will not be sufficient enough for your SURGE. Use your USB for all indoor charging needs.

Q:How do I know that my SURGE is in charging mode or not in charging mode?

A: The first LED light will change color whenever there is sufficient light and whenever the battery is charging.

If you have additional questions or need assistance, please contact Tech Support at:

Phone: 1-877-765-0168

Fax: 1-510-280-6088

E-mail: info@novothink.com

Also visit us:



twitter.com/novothink



facebook.com/novothink



blog.novothink.com

Product Specifications

1. Dimensions: 4.875" x 2.625" x 0.875"
2. Weight: 2.8oz. (79 grams)
3. Built-in Apple certified 30 pin connector.
4. Compatibility: Custom designed for iPhone 3G & 3G S
5. Battery:
 - Integrated rechargeable 1320mAh 3.7V lithium-ion polymer battery more than doubles the battery life of iPhone 3G, 3G S and offers 105% capacity of iPhone 3G & 3G S
 - Advanced lithium-ion polymer battery cell technology prevents overcharging and provides protection from extreme temperature
6. Solar Panel
 - State-of-the-art solar panel allows continuous charging from the sun
 - Custom designed and engineered solar panels specifically for the SURGE outputs 6V at 100 mAh in full sun 2 hours of direct solar exposure provides 30 minutes of talk time on a 3G network or 60 minutes talk time on a 2G network
7. USB Cable
 - Custom engineered USB 2.0 cable provides high capacity charging and data exchange
 - Charge and sync with iTunes without removing iPhone 3G, 3G S from case with the provided USB cable
 - Compatible with standard USB charging ports

Warnings

Please read all instructions and warnings before using SURGE. Failure to follow these instructions may lead to fire, fumes or heat damage to iPhone 3G & 3G S as well as SURGE, for which Novothink is not responsible.

1. Do not attempt to disassemble or service the SURGE.
2. Avoid excessive drops, abrasions and punctures.
3. Keep the SURGE dry at all times; do not expose to moisture or submerge in water.
4. Use only custom USB cable provided when charging or syncing with the SURGE.
5. Do not expose iPhone 3G & 3G S and SURGE to extreme heat, such as leaving it on a car dashboard in hot weather. If overheating above 140° F occurs, the Solarcharger Surge will automatically stop charging until temperature drops below 140° F.
6. Always follow Apple's instructions for care of your iPhone 3G & 3G S.

Smart solar charging!

What makes the SURGE a smart solar charging device?

Answer: Our smart solar charger automatically charges your iPhone 3G & 3G S whenever your iPhone needs "juice" and there is sufficient power reserved in our charger. You do not need to think about it, and there are no switches to worry about: just insert your iPhone, and our charger will know when to start and stop charging to maximize running of your iPhone 3G & 3G S. Our smart solar charger has also a built-in thermal sensor, which will stop charging to prevent your iPhone and your charger from overheating. Of course, use your common sense and don't leave your iPhone on a dashboard in extremely hot weather as this could damage your iPhone and even the charger, although our charger withstands higher temperatures than the iPhone 3G & 3G S.

Warranty

Novothink takes pride and dedication to making the best quality solar products in the market. Your SURGE is warranted for one (1) full year from the date of purchase against defects in materials and workmanship. This warranty does not apply to damage caused by accident, abuse, misuse, or modification of the SURGE, or scratches or surface damage that may occur from regular wear and tear. The battery and solar panel are meant for use only in conjunction with the appropriate mobile entertainment device



3G

9:42 AM



Messages



Calendar



Photos



Camera



YouTube



Stocks



Maps



Weather



Voice Memos



Notes



Clock



Calculator



Settings



iTunes



App Store



SolarPlanner



Phone



Mail



Safari



iPod