



## Surfr™ Galaxy S4 Solar Assisted Battery Case

### A. Installation

1. Remove the top cover so it does not impede the insertion of the phone
2. Slide the phone into the case from the top
3. Replace the top cover

4. Remove the protective film from the solar panel and front cover, the case is now ready to use

### B. Operating Instructions

1. Please use the included Micro USB cable to charge the EnerPlex Surfr. First place your phone securely in the EnerPlex Surfr and then connect the battery pack to a power source via the USB cable. The power source will charge the phone and the EnerPlex Surfr at the same time.

2. To charge your phone's battery from EnerPlex Surfr, press and hold the power button on the EnerPlex Surfr, - Blue LED lights will illuminate. Each Blue LED light accounts for 25% power level in the EnerPlex Surfr battery pack. If there are no blue lights illuminated, then the charger requires charging.

3. When there is no electrical source available, place the EnerPlex Surfr under the sun or very strong light with the solar panel facing upward. The Red LED light will illuminate automatically, indicating the integrated solar panel is charging the EnerPlex Surfr battery. For best solar charging, angle your EnerPlex Surfr towards the sun.

### C. Important Safety Instructions

1. Be cautious of excessive drops, bumps, abrasions, or other impacts to the EnerPlex Surfr solar battery case.
2. Do not expose the EnerPlex Surfr to wet or damp conditions.
3. Do not use near or on heat emitting appliances.
4. Do not attempt to open, disassemble, or replace any spare parts in the EnerPlex Surfr.

5. The EnerPlex Surfr may become somewhat warm during charging, this is normal.

6. Do not throw away the EnerPlex Surfr unit, please bring used units to your local recycling center.

7. The EnerPlex Surfr is not intended for use by young children without supervision. Young children should be supervised to ensure they do not play with the EnerPlex Surfr.

### D. Warnings

1. Please read the instructions carefully
2. Do not place the EnerPlex Surfr in a hot enclosed area (such as a parked car in summer time), the heat may cause damage to the phone or case.
3. Do not expose or immerse in water, the moisture may cause permanent damage to the case and void the warranty.

### E. Electrical Characteristics

Battery Capacity: 2500 mAh (~80% maximum charge)

Battery Type: Li-ion Polymer

Primary Input: 5V DC 1000 mA (min)

- Full charge of Surfr in 3 hours
- Full charge of Surfr and Phone in 6 hours
- Primary charging via included USB cable

Secondary Input: CIGS Photovoltaic panel (integrated)

- 0.38 Watts at STC Conditions (STC is Standard Testing Conditions, 25°C, 1000 W/m<sup>2</sup>, AM1.5)
- Full charge of EnerPlex Surfr under STC in 25 to 33 hours.
- Charging time under real world conditions will vary significantly depending on light sources, sun intensity, and temperature.

Output to Phone: 5.0V DC 850 mA (max)

### F. Physical Characteristics

Size: 20mm X 74mm X 147mm

Weight: 100g

### G. Warranty/Standards

Warranty: For warranty information, go to [www.goenerplex.com](http://www.goenerplex.com)

Standards: Certified to CE and FCC requirements

