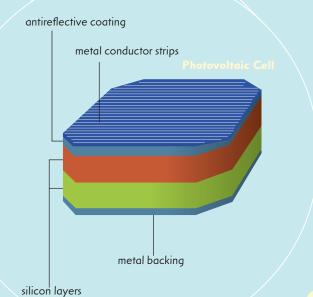
Solar powered Backpack

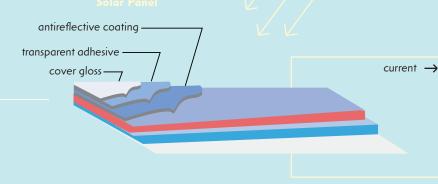
You can't go anywhere nowadays without a cell phone, laptop, pda, or other hand-held electronic devices. These devices run on batteries and can, in the bigger picture, use a ton of energy. This product solves two problems. First would be solving the issue having to find a place to charge your device. Second being reducing the energy cost of charging your various devices. This back pack stores solar energy into a battery pack within the back pack. This mobile battery is then used to plug in and charge your various devices while on the move. The storage capacity of the power bank at 10.000mAh is impressive and offers output options of 19v, 13~16.8v, 13v & 9v @ 3.5A and 5V@ 1A. This is enough power to serve for almost any portable device you might possess.



A Photovoltaic technology is born in the US with the silicon photovoltaic cell

Aubert and Stora discover the photovolitaic

effect in codminum sulfide



sunlight

Solar into Electricity

Robert Millikan provided experimental proof

r of the photoelectric effect

Ablest Einstein Dublishes a paper on

ween, you me photoelectric effect

To figure out how a solar-powered backpack works, we need to understand a little bit about the mechanics of the solar-powered backpack, or solar technology. It may seem complicated, but it's really pretty simple -- photovoltaic (PV) cells are what make it all happen. The cells, grouped together as modules or panels, collect light from the sun and convert it to usable electricity. They're able to do so with the help of something called a semiconductor. These are substances that can conduct electricity. In the case of solar cells, silicon is the semiconductor of choice.

How Solar Cells Work

When sunlight hits a solar panel, the silicon semiconductor absorbs a portion of the light and its energy. When this happens, electrons in the silicon are knocked loose and they begin to flow freely. Electric fields in the photovoltaic cells wrangle those electrons and force them to flow in one direction like a cattle rancher guiding his heard. This creates an electric current that can be harnessed by attaching metal contact points at the top and bottom of the PV cell. Once the energy is collected, it can be used immediately as electricity or stored in a battery or series of batteries for

The silicon semiconductor is naturally shiny and reflective, which isn't great for drawing in sunlight. To solve this issue, an antireflective coating is applied to the cell to keep energy loss at an acceptable five percent or less. Add a protective covering to the panel and you have an energy harnessing machine. This is enough to get you a basic understanding of how this solar technology works.

David Carlson and Chris Wionski fabricate

free-piston stirling engine is tied to a utility grid

First colar dish generator using a

Two new thin-film solar modules, developed

Powerlight Copporation installs the loggest

Worldwide photovoltaic production exceeds 9,3 megawatts

first amorphous silicon photovoltaic cells

France installs a cadmium sulfide photovoltaic system to power a educational TV in Niger

1862 Bell Telephone Labs launches the first telecommunications satellite, the teslar (initial power 14 watts)

The History of Solar Power

Hoffman Electronics achieves 9% efficient photovoltaic cells

Is very vast, broad, and goes in many different directions. The important parts leading up to where solar is today are highlighted here