



Solar SEED

Scalable Energy Empowerment Device

Solar SEED Team

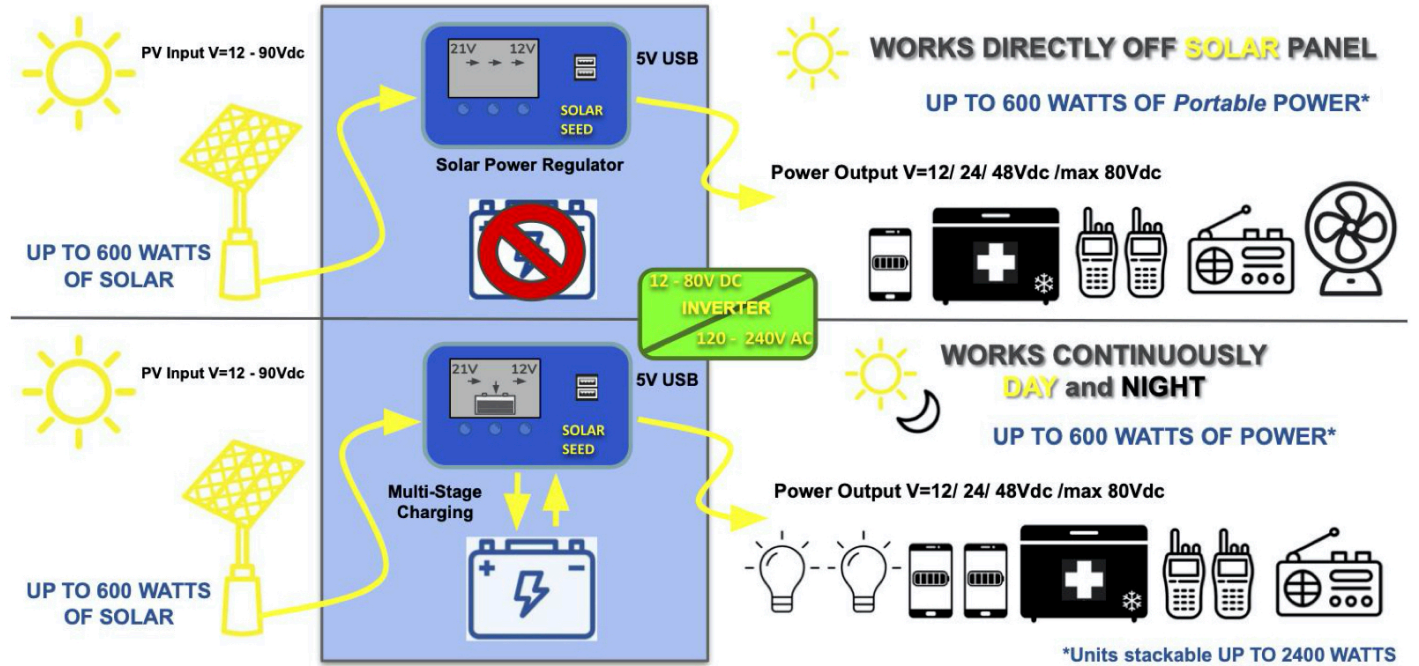
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American-Made Challenges: Solar Prize

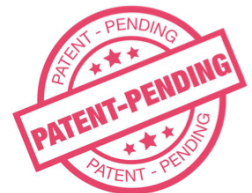
TECHNOLOGY



SOLAR SEED is the first name in **Smart Controllers**. SOLAR SEED can generate **usable DC and AC** electricity directly from sunlight **without the need for batteries**, but is able to store energy when batteries are connected, making electricity available during the day and night. SOLAR SEED is designed to meet a **wide range of power needs** from one small USB device, to lighting and appliances.

SOLAR SEED regulates power and monitors charging status with the advantage of having an **Adaptive Circuit Platform** which provides dual functionality:

- When Solar SEED senses a battery attached to the system, it functions like an MPPT charge controller and keeps the batteries fully charged.
- When only a solar panel is connected, the Solar SEED operates like a power regulator delivering AC and DC power.



840M people were without access to electricity in 2017. In Sub-Saharan Africa **585M** people will still lack access in 2030^[1].

Market for **Global Disaster Recovery Solutions** is expected to reach **\$26.23B USD** by 2025 due to growing instances of infrastructure failure, natural disasters, and other unanticipated events^[2].

Black-Boxed solar products are often unserviceable, proprietary, and not scalable. **26.2M** off-grid solar devices were out of use, and **3600 Tons** of off-grid solar e-waste was produced in Sub-Saharan Africa in 2017^[3].

NETWORK PARTNERS

