



# Solar SEED

## Scalable Energy Empowerment Device

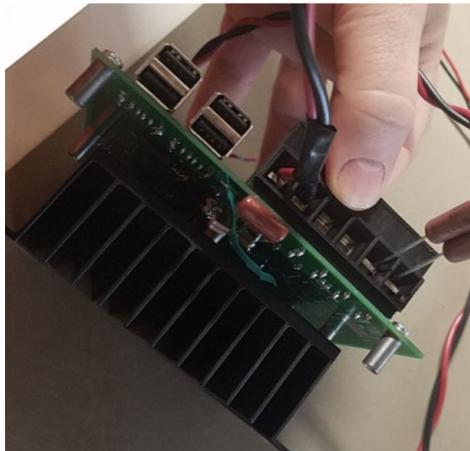
Solar SEED Team

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### Technical Assistance Request

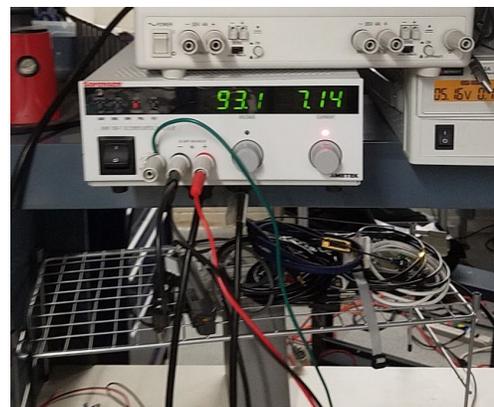


Throughout the process of developing the Solar SEED we have been focused on keeping a balance between manufacturing cost, performance, and durability as our product will be utilized in harsh environments and developing countries. We are presently bench testing the Solar SEED Adaptive Circuit design, and have thoroughly explored the competitive landscape, in addition to complete teardowns of charge controllers with similar power capacities, manufactured by well established brands, like Morningstar, Renogy, Victron Energy, and Blue

Sky Energy.

There are specific needs we foresee having to further develop the device into a marketable consumer product, therefore design, engineering, and manufacturing assistance will be required to resolve and define how SEED should best function, and be fabricated while keeping in mind manufacturing and mass production. A few potential institutions and organizations that have been approached to engage some of these aspects include, NYU Tandon School of Engineering, Atlantix Engineering, and Nation of Makers. There are also numerous Maker Spaces throughout the 5 Boroughs, like A/D/O and NY Designs.

**Testing and Validation** is another critical part of the design and production process. This ensures the product operates safely and is suitable for the masses. The team does have considerable amount of experience with fabricating prototypes and product design, but this will be an amazing learning experience. And something we will pay close attention to from start to finish. Presently we are bench testing our circuit, and have connected with the Energy Systems Integration Facility at NREL, as well as Lawrence Berkeley National Labs.



*testing circuit to 660W, 93VDC input*

**Business Plan Development & Marketing** will be an ongoing process which is something the team has the least amount of experience with, so finding a partner who will work with us to grow this fledgling operation is very important to the success of this endeavor. As tenants at NY Designs incubator in Queens, NY, we are presently receiving business and marketing advisement.

A few key American-Made Network members we would be interested in working with include Elemental Excelsior, Powerhouse, and Greentown Labs. It is of utmost importance that whoever we partner with understands our goals in developing this device for not only the consumer market, but more importantly for humanitarian purposes. Our initial focus areas are emerging markets (basic access to power) and developed markets (off-grid, on demand power), disaster relief and first responders, in addition to meeting the needs of displaced individuals living in refugee camps.