

New Age Solar – The Mighty Power System

TECHNICAL ASSISTANCE REQUEST

The Mighty Power System (MPS) is a prefabricated, plug-and-play transportable off-grid solar power and battery backup/energy storage system providing instant power during emergencies and in remote locations.

Our standard unit is comprised of two elements--the patented PPG (portable power generator) solar panel array, currently providing 1,200 DC watts, and the Mighty Box battery backup/energy storage unit, providing 6.4 kWh energy storage/useable electricity.

The MPS is scalable, allowing multiple PPGs to be networked into individual Mighty Boxes. Optional Mighty Box “Companion” mobile battery units are also available for more solar and battery power.

In addition to the many built-in unique features, the MPS requires no tools or special training to assemble and operate. What makes the MPS even more distinctive is that during non-emergency times our innovative wiring design allows PPGs to be networked together creating traditional grid-tied ground-mounted installations.

We have already manufactured several prototypes that are ready for testing.

To achieve our goals, and to test system proof of concept, we would like assistance in the following areas:

Wind tunnel testing:

- Determine wind load capabilities on a standalone PPG
- Simulate varying configurations for large scale grid-tied installations by testing the load capabilities of multiple rows of PPGs networked together
- Determine stability during seismic activity

Electrical testing:

- MPS grounding evaluation and confirmation
- Evaluate PPG wiring conversion
- Evaluate multiple solar panel continuity
- Determine potential failure point of connections if/when subjected to extreme rainfall conditions

Wind and electrical testing would be performed by certified national labs, and should include military standards.

We will also appreciate help to determine required and/or recommended national and international certifications.

System components' review:

- Assessment to determine whether there are better/more efficient/more economical components to utilize
- One of our claims is that our system operates quietly. But the internal cooling fans in the Mighty Box are noisy when battery charging causes heat build-up. Help in finding a solution to remediate this issue is needed.

Marketing

- Overall business plan assistance, especially in the areas of pricing and projections
- Assistance with customer discovery; introductions to potential buyers, e.g. utilities, FEMA, military, NGOs who provide disaster relief, investors, etc.

Technical Writing

- Assistance in creating an instruction manual, to include diagrams.

Thank you for your consideration!

Contact:

Rosalie Muskatt

rosalie@newagesolar.com