

Active Solar Photovoltaic system(ASPS) pitch.

1. Most of the traditional photovoltaic systems have a main limitation: requirement of the huge area. That limitation is the result of the low efficiency of PV cells (between 10-20%). Systems of 2-4 kWh require a 40 sq meters area(systems footprint). Do you have such a field or roof? I don't have and neither will I ever have . And most of the people in the world too. Every one of them could be a user of the ASPS.



2. Scientific expeditions that go in the unexplored territories or in the territories with hard access usually using some electronic equipment. That equipment receives electricity from the rechargeable batteries. How to recharge batteries in the jungle, desert or on the top of the mountain? Who wants to take in an expedition solar panel of 1.6 square meter and weigh 20-25 kg besides other things that are required? ASPS does not need neither a truck for transportation nor a crew of technicians for mounting. ASPS could be transported, assembled and mounted by one or two people. Nonetheless it will be able to charge 12/24/48 volt batteries everywhere!



60 volts from cloudy sky.

3. All PV systems have output loss due to heat and air pollution. Up to 20-30%, ASPS-not! Working temperature measured on the cell's surface stays at the level of 40-45 degrees in the conditions of Mediterranean summer even at midday and with the slow motion of the system.
4. Current's amperage is 4-5 times higher than was calculated!



**0.25 A maximum - in theory.
0.59 A, 0.82 A, 1.23 A-
- in reality!**



5. ASPS is the real AC/DC generator without any additional inverters. Traditional PV systems-DC only.

P.S Today the combination of the transport and solar panels looks like parody:



This Solar Powered Electric Car Idea is Epic: But Here's Why It Doesn't Work!



ASPS can bring this combination to real life and normal view too.