Stratospheric Solar Power

Our stratospheric solar-electric airplane is more than just an aircraft -- it"s a catalyst for innovation, a challenge to the status quo of aviation. Designed by Calin Gologan and German company Elektra ...

The output power of the solar array during flight can be quickly and accurately calculated and predicted, facilitating real-time assessment of the flight capabilities of stratospheric airships in a ...

Seattle-based Radical says it has put a full-size prototype for a solar-powered drone through its first flight, marking one low-altitude step in the startup"s campaign to send robo-planes into...

Stratospheric solar-powered UAVs are gaining international attention as long-endurance electric aircraft capable of operating for several months at altitudes over 18 km. These platforms combine eco ...

The slender SolarStratos aircraft, with solar cells blanketing its long wings, relies on batteries charged on the ground, while in flight it conserves energy with sunlight and thermals, a ...

Horus A is a solar-powered unmanned aircraft system (UAS) capable of carrying up to 150 lb of payload with 1.5 kW of available power. It offers industry-leading stratospheric performance.

The result is Horus(TM) A, the new version of Sunglider for government applications. Horus A is a solar-powered UAS capable of carrying up to 150 lb of payload with 1.5 kW of available power, ...

The new model has more than twice the onboard solar power generation and storage capacity than the current version. These modifications are expected to allow it to demonstrate ...

In parallel, space-based solar power systems located in geostationary or medium Earth orbit can transmit laser or microwave energy to stratospheric receivers, creating a multi-layered ...

The power generated by the airship solar array was modeled herein through a combination of the flight

attitude, spatial position, time, and other influencing factors.

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